# User Manual

**51PP9100D**
**60PP9100D**

*Thank you for choosing Philips.*

Need help fast?

*Read your User Manual and/or Quick-Use Guide first for quick tips that make using your Philips product more enjoyable.*
*If you have read your instructions and still need assistance you may access our online help at*

*www.usasupport.philips.com*
*or call*
*1-888-PHILIPS (1-888-744-5477)*
*while with your product.*

Model No.:_____

Serial No.:_____

PHILIPS

3139 125 34902-English

# Return your Product Registration Card today to get the very most from your purchase.

*Registering your model with PHILIPS makes you eligible for all of the valuable benefits listed below, so don't miss out. Complete and return your Product Registration Card at once to ensure:*

## *Proof of Purchase

Returning the enclosed card guarantees that your date of purchase will be on file, so no additional paperwork will be required from you to obtain warranty service.

## *Product Safety Notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

## *Additional Benefits of Product Ownership

Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.

# PHILIPS

***Congratulations on your purchase, and welcome to the "family!"***

**Dear PHILIPS product owner:**

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

Most importantly, you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome - and thanks for investing in a PHILIPS product.

**P.S. To get the most from your PHILIPS purchase, be sure to complete and return your Product Registration Card at once.**

*Know these* **safety** *symbols*

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

**WARNING:** To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

**CAUTION:** To prevent electric shock, match wide blade of plug to wide slot, fully insert.

**ATTENTION**: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

### For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No._____

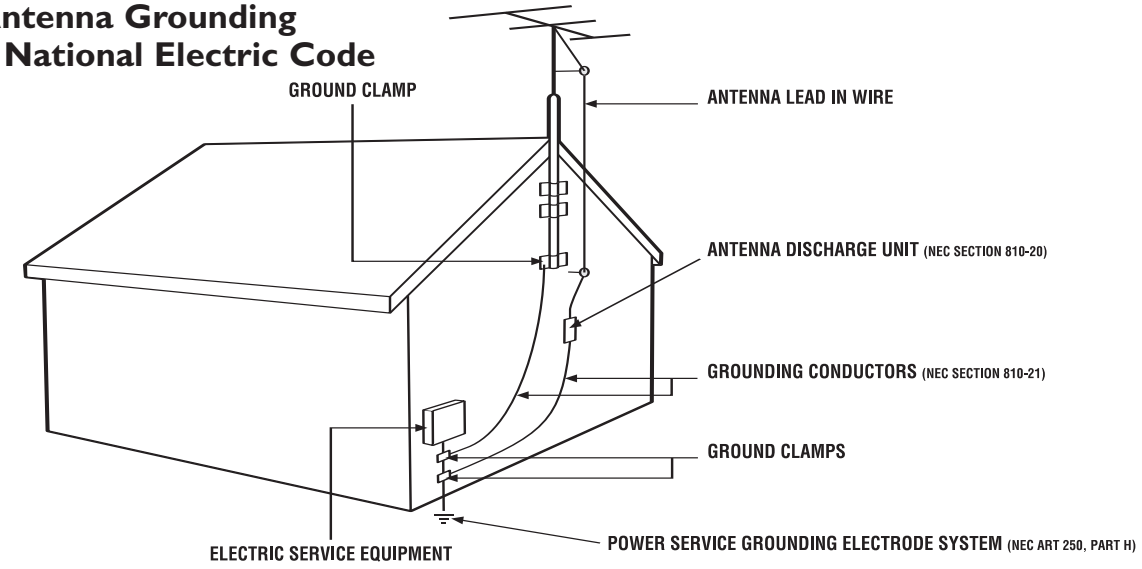
Serial No. _____

# IMPORTANT SAFETY INSTRUCTIONS
## Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    **A.** The power supply cord or the plug has been damaged; or
    **B.** Objects have fallen, or liquid has been spilled into the appliance; or
    **C.** The appliance has been exposed to rain; or
    **D.** The appliance does not appear to operate normally or exhibits a marked change in performance; or
    **E.** The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
    - Do not compromise these design standards by applying exces sive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
    - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.
    Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
    a) Warning: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
22. **Battery Usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit.
    - Install all batteries correctly, with + and - aligned as marked on the unit.
    - Do not mix batteries (old and new or carbon and alkaline, etc.).
    - Remove batteries when the unit is not used for a long time.

**Note to the CATV system installer:** This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

### Example of Antenna Grounding as per NEC - National Electric Code


GROUND CLAMP
ANTENNA LEAD IN WIRE
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
ELECTRIC SERVICE EQUIPMENT
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

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## Items Included with This TV

**As you unpack your TV, please note that this *Directions for Use* manual contains safety-tip information and Factory Service Center locations, as well as a Warranty Registration Card, and remote control.**

Please take a few minutes to complete your registration card. The serial number for the TV is on the rear of the set.

Refer to the back of this manual for instructions in the cleaning and care of the TV.

# FEATURES

**Alternate Channel (A/CH) button** allows you to switch back and forth between the currently viewed channel and the previously viewed channel.

**Automatic Phosphor Aging Compensation (APAC)** Because both analog sources (cable TV and DVD) and digital sources (HD and progressive scan DVD) have different aspect ratios (4:3, 16:9, 21:9, etc.) the picture on a digital television may have black bars on the sides or top and bottom. Once black bars are detected in either the 4:3 or 16:9 viewing mode, APAC automatically shifts the television picture, pixel-by-pixel, just enough to blur image retention. Because APAC works in both the analog and digital modes, you have excellent protection.

**Audio/video jacks** allow direct connections with VCRs and other accessories for quality TV picture and sound playback. Component video input jacks are provided for high-fidelity color and picture resolution when using digital video source material, such as a DVD.

**Audio Volume Leveler (AVL) control** keeps the TV's sound at an even level. Peaks and valleys that occur during program changes or commercial breaks are reduced, making for a more consistent, comfortable sound.

**AutoChron** automatically sets the right time of day and maintains it with digital precision through brownouts, power failures, and even Daylight Savings Time adjustments.

**AutoLock** protects young children from objectionable programming with V-chip technology.

**Auto Picture** allows you to push a button and adapt your TV's picture to various types of programs, such as sports, movies, and multimedia (games).

**Auto Sound** allows you to select from three factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound submenu. The three factory-set controls—Voice, Music, and Theatre—enable you to tailor the TV sound to enhance the particular programming you are watching.

**Channel Edit** allows you to add or remove channels from the list of channels stored in the TV's memory. Channel Edit makes it easy to limit or expand the number of channels that are available to you when you press the CH +/– buttons on your remote control.

**Closed Captioning** allows you to read TV program dialog or voice conversations as onscreen text.

**Auto Contrast** helps you sharpen the picture quality by making the contrast between the dark and bright picture areas more noticeable as the image on screen changes.

**High-definition component video inputs** allow you to connect High-definition signals to the TV (HD INPUT-AV 4 only). The result is superb color purity, crisp color detail, and reduced color noise. Your set provides separate HD inputs for YPbPr/RGB, as well as horizontal and vertical sync.

**Hi-fi stereo system,** including a built-in audio amplifier and a twin speaker system. The system enables you to hear stereo sound or Second Audio Program (SAP) bilingual broadcasts when they are available.

**Incredible Surround** enhances stereo programs by making the sound broader and fuller.

**Onscreen menu** shows the TV controls and allows you adjust or set those controls (can be viewed in American English, French, or Spanish).

**Standard broadcast (VHF/UHF) or cable TV (CATV)** channel capability, as well as advanced capability for high-definition video.

**Three-line comb filter** provides improved chroma/luminance separation to the picture. Offering vertical-edge enhancement and virtually no "dot crawl," this filter easily supports the demands of DVD players and other advanced high-resolution video sources.

* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

As an Energy Star® Partner, Philips has determined this product meets the Energy Star® guidelines for energy efficiency. Energy Star® is a U.S. registered mark. Using products with the Energy Star® label can save energy. Saving energy reduces air pollution and lowers utility bills.

## End-of-life Disposal

Your new projection television and its packaging contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts that need to be properly disposed. The batteries used by your product should not be thrown away when depleted but should be handed in and disposed of as small chemical waste. Please find out about the local regulations concerning how to dispose of your old television, batteries, and packaging materials whenever it is time to replace them.

# REMOTE CONTROL BUTTONS

**Number Buttons** – Press to select TV channels. When selecting single-digit channels, press the number of the desired channel. The TV will pause for a few seconds and then tune to the selected channel.

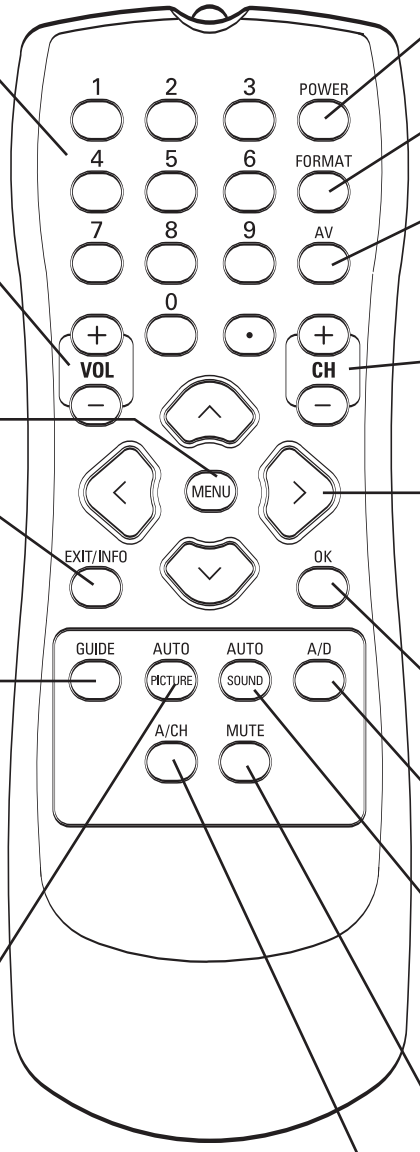
**Volume (+) or (–)** – Press to adjust the TV sound level.

**MENU** – Press to display the onscreen menu. Press to return to a higher menu level.

**Exit/Info** – Pressing the button once shows the current channel number, name (if set), time (if set), and sound setting (stereo, mono, SAP, or mute). Pressing the button twice shows the current AutoLock settings. Pressing the button once when an onscreen display is showing removes the onscreen display.

**Program Guide Button** - In digital mode, press to display the current program information. Press the ˙button to access the program information on the next time slot. The quality and accuracy of the infomation on the program guide and the information banner are transmitted from the broadcasters. You may see a difference in broadcast time if the broadcaster is from a different time zone area.

**Auto Picture** – Press to select an Auto Picture control. Choose from four factory-set controls—Movies, Sports, Weak Signal, and Multimedia—and a PERSONAL control that you set according to your own preferences through the onscreen Picture menu. The four factory-set controls will enhance the TV picture according to the particular type of program you are watching. It may also be used to enhance pictures with weak signals.




**Power ⏻ button** – Press to turn the TV ON and OFF.

**FORMAT button** – Press to toggle the different screen format options.

**AV (Source) button** – Press to select the different signal sources connected to the AV inputs on the TV.

**Channel (+) or (–) buttons** – Press to access the next or previous channel.

**Cursor Buttons (Left <, Right >, Up ∧, Down ∨)** - Press these buttons to highlight, select and adjust items on the TV's onscreen menu. Also press the Up or Down cursor to adjust the picture format for 16:9 and 16:9 Zoom in digital mode.

**OK button** – Press to activate selection when programming remote control.

**A/D button** – Press to select Analog or Digital mode.

**Auto Sound button** – Press to select an Auto Sound control. Choose from three factory-set controls (VOICE, MUSIC, and THEATRE) and a PERSONAL to tailor the TV sound to enhance the particular type of program you are watching.

**Mute** – Press to turn the TV sound off. To restore the sound to its previous level, press the button again.

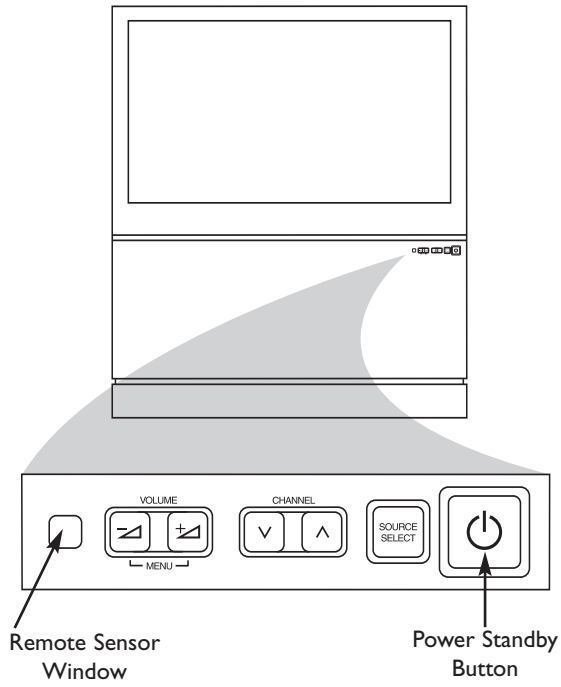
**A/CH** – Press to alternate between the currently viewed channel and the previously viewed channel.

# Operating the Television and Remote Control

## Television

### Using the TV Buttons

*Should your remote control be lost or broken, you can still change some of the basic picture and sound settings with the buttons on the TV. Follow the steps below to familiarize yourself with the functions of the TV buttons.*




1. **Press POWER/STANDBY** to turn the TV on (or off). Allow about 10 seconds for the TV to power on.

2. **Press the VOLUME + or – buttons** to decrease or increase the sound level.

   Press the VOLUME + and – buttons simultaneously to display the onscreen menu. After the menu appears, use these buttons to enter submenus and make selections or adjustments. (Use the CHANNEL buttons to move up and down in the menu or submenus.) Press both VOLUME buttons simultaneously to back out of the onscreen menus.

3. **Press SOURCE SELECT** to choose from among the signal inputs you have connected to the TV.

4. **Press the CHANNEL buttons** to select TV channels.

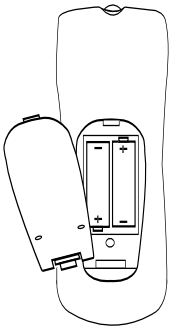
### *Helpful Hint*

You can press any of the buttons on the front of the TV to turn the TV on, but you must press thePower/Standby button to turn the set off.

## Remote Control

### Installing Batteries

*To load batteries into the remote, follow these steps.*



1. **Gently press the tab on the battery cover** on the back of the remote and lift the battery cover off the remote.

2. **Place the two "AA" size batteries in the remote's battery case**. Ensure that the (+) and (–) ends of the batteries line up correctly with the (+) and (–) inside the case.

3. **Press the battery cover back into place**.

Note: When operating the remote control, point the remote toward the remote sensor window on the TV.

### *Battery Usage CAUTION*

**To prevent battery leakage that may result in injury to you or damage to the remote control:**

- Install ALL batteries correctly, + and –, as marked on the unit.
- Do not mix batteries (OLD and NEW or CARBON and ALKALINE, etc.)
- Remove batteries when the remote control is not used for a long time.

**Do not take apart, heat, or put batteries in fire.**

### *Helpful Hints*

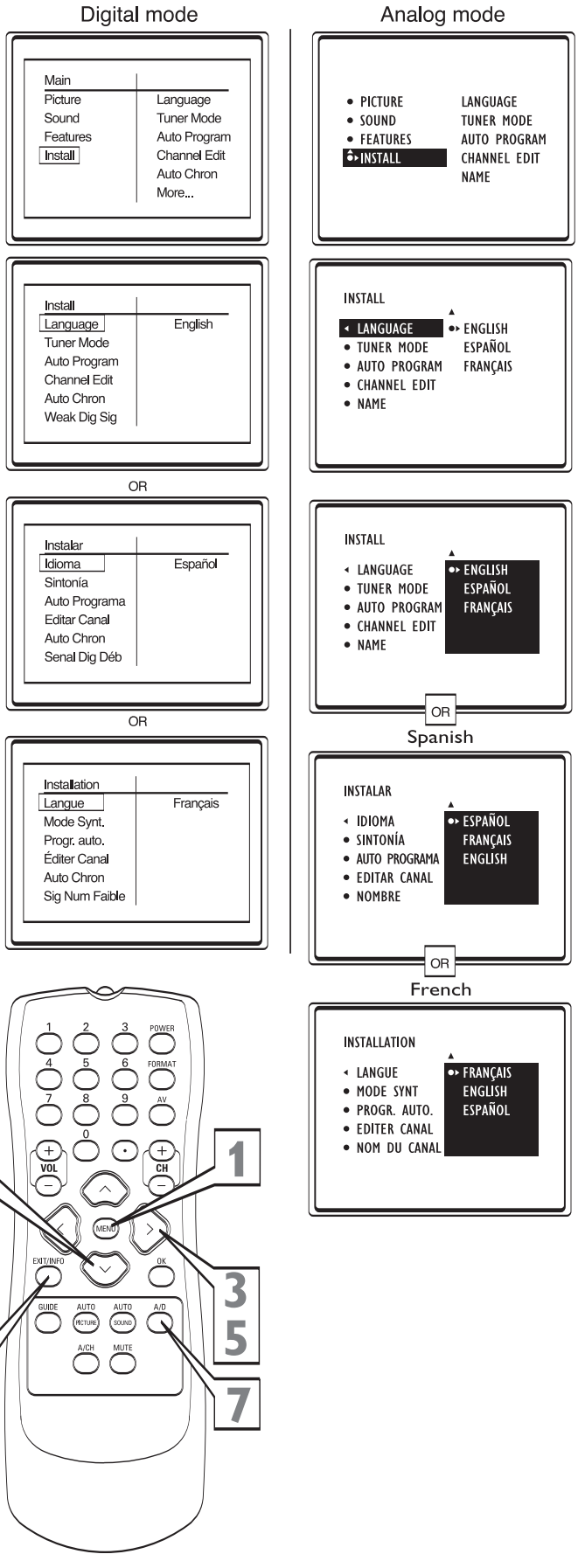
- Be sure to point the remote toward the sensor window on the TV.
- Be within about 30 feet (10 meters) of the TV.
- Avoid dropping the remote on hard surfaces.
- Do not use harsh chemicals to clean the remote. Use only a soft, lightly moistened cloth.

# How To Use Language Control

*For French and Spanish speaking TV owners an onscreen Language option is present. With the Language control you can set the TV's on-screen menu to be shown in English, French, or Spanish.*

1. **Press the MENU button** on the remote control to show the on screen menu.
2. **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll though the onscreen menu until the word **Install** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the **Install** menu features.
4. **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll through the Install features until the word **Language** is highlighted.
5. **Press the CURSOR RIGHT ▶ button** to select English, Français (French) or Español (Spanish).

   **For Analog Mode:**
   Use the **CURSOR RIGHT ▶ button** to highlight the Language Control option, then press **CURSOR UP ▲** or **DOWN ▼** to select English, French or Spanish.
6. **When finished, press the EXIT/INFO button** to remove the menu from the TV's screen.
7. **To switch between Digital and Analog Channels,** use the A/D button on the Remote Control.




## Helpful Hint

The Language control only makes the TV's on-screen Menu items appear in English, Spanish, or French text.
It does not change the other on-screen text features such as Closed Caption (CC) TV shows.

# PROGRAMMING PART 1 - HOW TO USE THE TUNER MODE CONTROL

*The TUNER MODE control allows you to change the TV's input signal to ANTENNA or CABLE, mode. It's important for the TV to know which type of signal to look for (Cable TV or Antenna).*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll though the onscreen menu until the word **Install** is highlighted.

**3** **Press the CURSOR RIGHT ▶ button** to display the **Install** menu features.

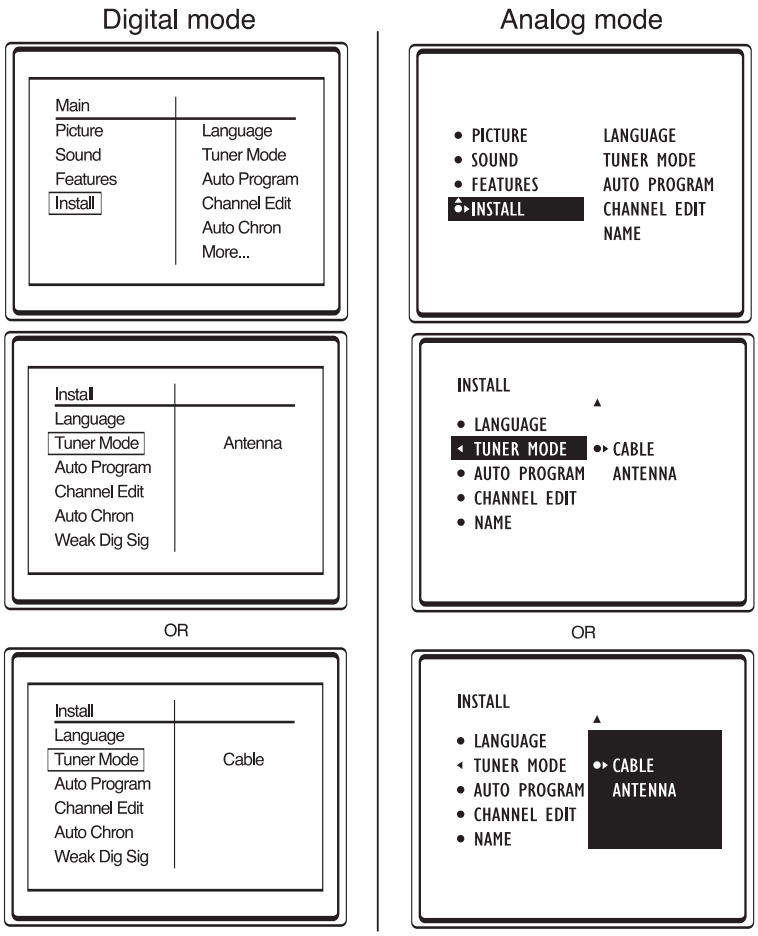
**4** **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll through the Install features until the word **Tuner Mode** is highlighted.

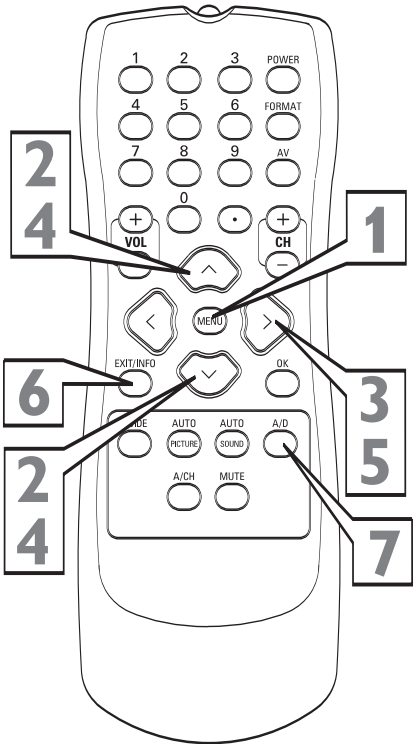
**5** **For Digital mode:**
**Press the CURSOR RIGHT ▶ button** once to enter sub-menu for the selection of **Antenna** or **cable** tuner mode. **Press the CURSOR UP ▲ or DOWN ▼ button** to select **Antenna** or **Cable**.

**For Analog Mode:**
Use the **CURSOR RIGHT ▶ button** to highlight the Tuner Mode options, the press **CURSOR UP ▲** or **DOWN ▼** to select **Cable or Antenna.**

**6** **When finished, press the EXIT/INFO button** to remove the menu from the TV's screen.

**7** **To switch between Digital and Analog Channels,** use the A/D button on the Remote Control.




## HELPFUL HINT

**Analog**
When CABLE is selected, channels 1-125 are available.
When ANTENNA is selected, channels 2-69 are available.

**Digital**
When CABLE is selected, channels 1-135 are available.
When ANTENNA is selected, channels 2-69 are available.

# PROGRAMMING PART 2 - AUTOMATIC PROGRAM

*Your TV can automatically set itself for local area (or Cable TV) channels. This makes it easy for you to select only the TV stations in your area when the CHANNEL (+), (–) buttons are pressed.*

**1** Make sure the antenna or cable signal connection has been completed before **AUTO PROGRAM** is activated.

**2** **Press the MENU button** on the remote control to show the onscreen menu.

**3** **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll though the onscreen menu until the word **Install** is highlighted.

**4** **Press the CURSOR RIGHT ▶ button** to display the **Install** menu features.

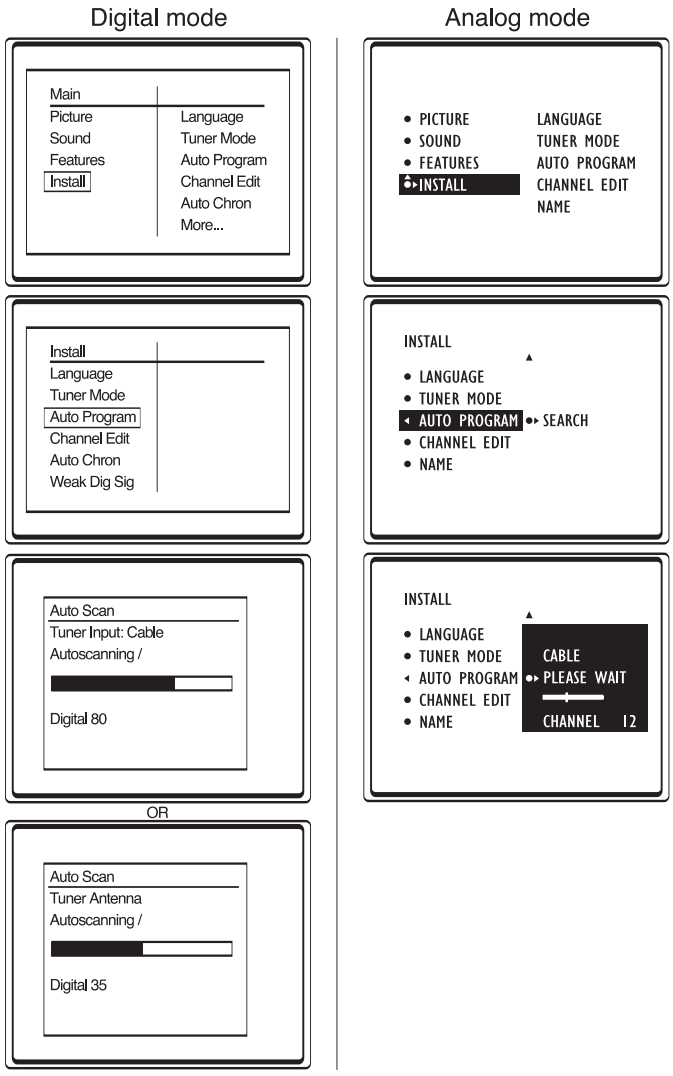
**5** **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll through the Install features until the word **Auto Program** is highlighted.

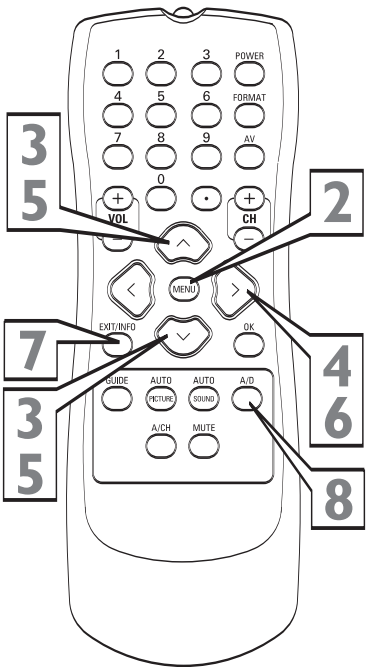
**6** **Press the CURSOR RIGHT ▶ button** to start auto programming.

**7** **When finished, press the EXIT/INFO button** to remove the menu from the TV's screen.

**8** **To switch between Digital and Analog Channels,** use the A/D button on the Remote Control.

* Digital installation may take 20 to 40 minutes depending on the no. of channels available.




## HELPFUL HINT

**Analog**
When CABLE is selected, channels 1-125 are available.
When ANTENNA is selected, channels 2-69 are available.

**Digital**
When CABLE is selected, channels 1-135 are available.
When ANTENNA is selected, channels 2-69 are available.

# CHANNEL EDIT (ADD OR DELETE CHANNELS)

*Channel Edit makes it easy for you to ADD or DELETE channels from the list of channels stored in the TV's memory.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll though the onscreen menu until the word **Install** is highlighted.

**3** **Press the CURSOR RIGHT ▶ button** to display the **Install** menu features.

**4** **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll through the Install features until the word **Channel Edit** is highlighted.

**5** **Press the CURSOR RIGHT ▶ button** to display the Channel Edit options.

**6** **With the Channel Edit options displayed,** and **Channel** highlighted; you can use the cursor buttons to scroll through all available channels that you wish to add or delete (Skipped) from the TV's memory.
In analogue mode, you can also use the NUM-BERED buttons to go directly to a specific numbered channel that you want to add or skip. Or, you can also use the CH+ or CH- to quickly scan through the channels that have not been skipped.

**7** In digital mode, **using the CURSOR DOWN ▼ button**, scroll the menu to highlight the channel you wish to add or skipped. In analog mode, **using the CURSOR DOWN ▼ button**, scroll the menu to highlight the word SKIPPED.

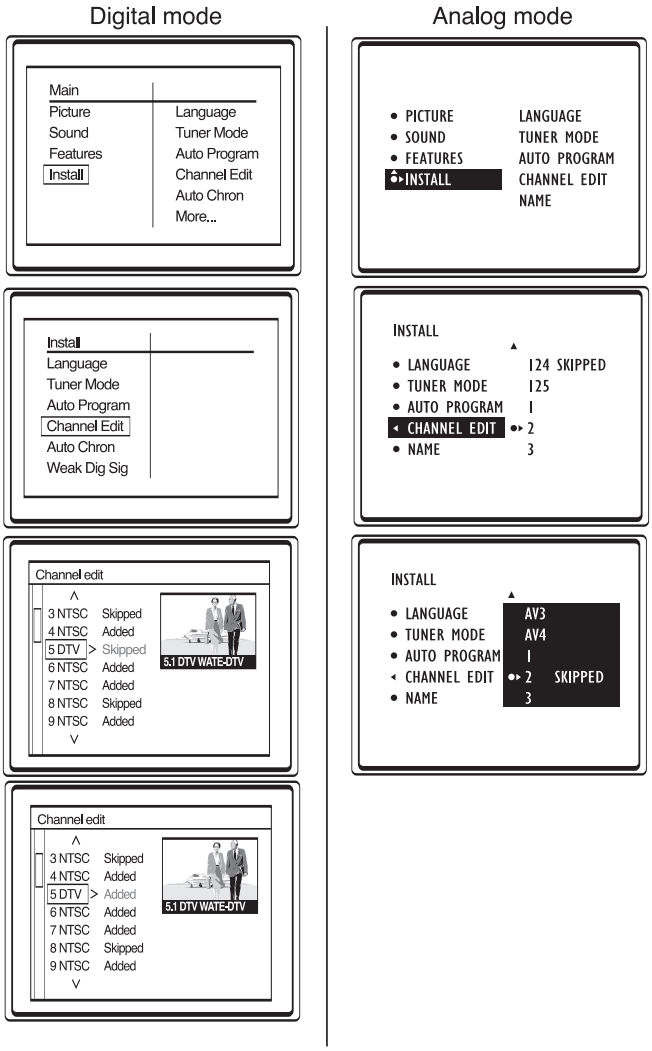
**8** In digital mode, **now use the CURSOR RIGHT ▶ button to toggle between Added or Skipped.** If **Skipped** is selected the channels is skipped when scrolling channels with the CH+ or CH- buttons. If **Added** is selected the channels is not skipped when scrolling channels with the CH+ or CH- buttons. In analog mode, **now use the CURSOR RIGHT ▶ button to toggle between On or Off.** If ON is selected the channels is skipped when scrolling channels with the CH+ or CH- buttons. If OFF is selected the channels is not skipped when scrolling channels with the CH+ or CH- buttons.

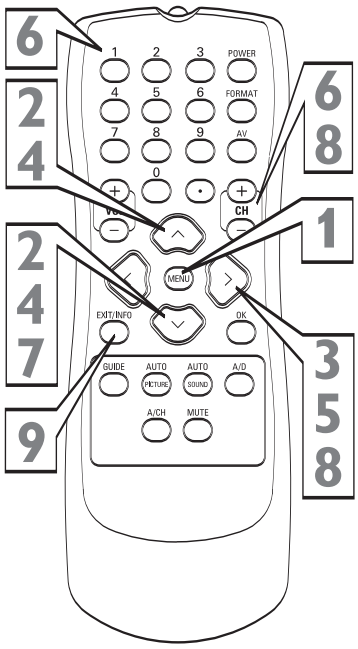
**9** **When finished, press the EXIT/INFO button** to remove the menu from the TV's screen.

## HELPFUL HINT

Skipped channel members will be displayed "SKIPPED" in red.

To switch between Digital and Analog Channels, use the A/D button on the Remote Control.



# NAME

*The channel NAME feature allows you to list the "call" letters of your favorite stations beside their channel numbers when they appear on the screen. The TV has in memory a list of the 50 most popular channel names (NBC, ABC, or FOX, for example). You also can enter a custom name (up to five characters).*

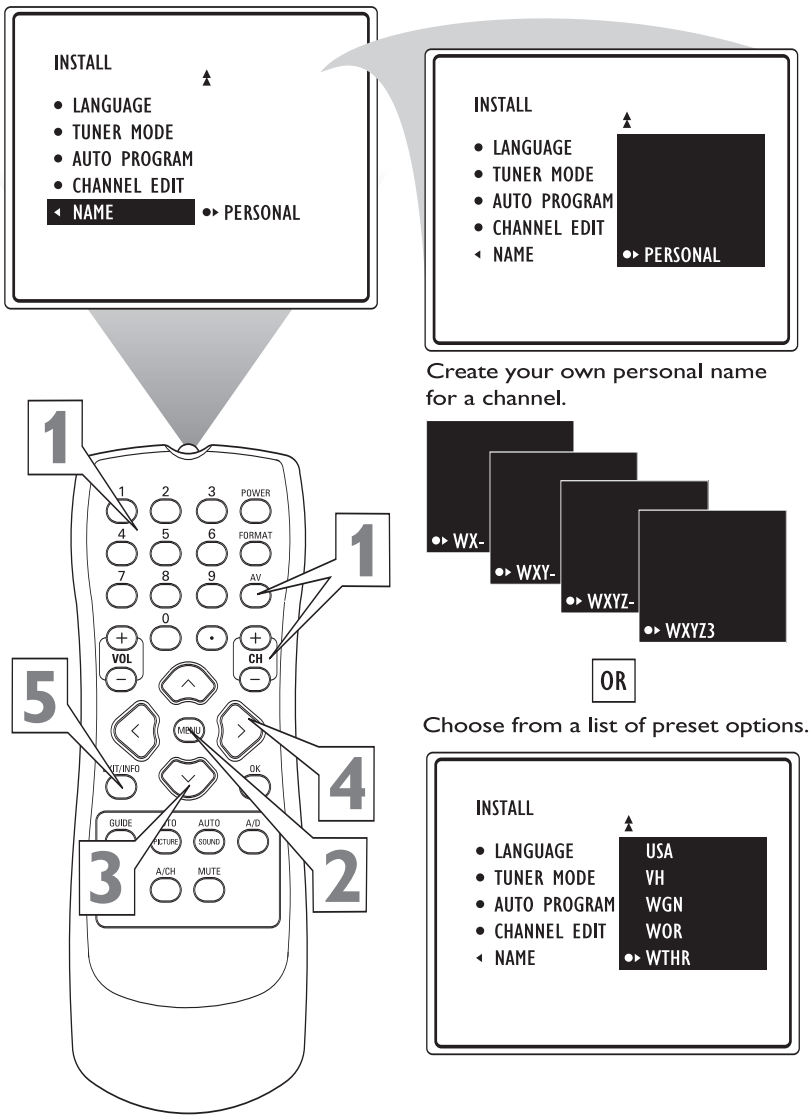
**1** **Press the NUMBER buttons, the CH(annel) +/– buttons, or the AV button** to select a TV channel or input source to which you want to assign a name or whose name you want to modify.

**2** **Press the MENU button.** The onscreen menu appears. Then press the CURSOR BUTTON DOWN repeatedly until INSTALL is highlighted. Press the CURSOR BUTTON RIGHT to enter the INSTALL submenu.

**3** **Press the CURSOR BUTTON DOWN** repeatedly until the NAME control is highlighted. Then press the CURSOR BUTTON RIGHT to highlight the NAME options area.
At this point you can choose between options of creating a personal name for the channel or selecting a preset one from a list.

**4** **To create your own personal name for the channel or change a personal name you created previously, press the CURSOR BUTTON RIGHT.** Then press the CURSOR BUTTON UP or DOWN to select the first character of the name. You can input up to five characters for the name. When finished, press the MENU button.
**Or**
**To choose from the list of preset names, press the CURSOR BUTTON UP or DOWN** to highlight your choice for the channel name. Press the CURSOR BUTTON RIGHT to select the name. Then press the MENU button.

**5** **Press the EXIT/INFO button** to exit the menu. When you press the EXIT/INFO button when no onscreen display is present or change to the channel you've named, the name will appear on screen next to the channel number or signal source name.




## HELPFUL HINT

- The five PERSONAL name characters you can input may be letters, a dash, or the numbers 0 through 9.
- If you begin inputting a personal name or changing an existing one and decide you'd rather select a name from the preset list, press the MENU button. This will return you to the INSTALL submenu, with NAME highlighted. Simply press the CURSOR BUTTON RIGHT to highlight the NAME options area again and choose a preset name as explained in step 4 to the left.

# AUTO CHRON (SYNCHRONISATION OF TIME)

*This menu is present only for digital signals.*

*Auto Chron™ sets the clock of the TV automatically or manually. For automatic selection, there will be queries for Time Zone, Day Light saving and channel to seek clock. For manual selection, you need to key in the time.*

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll though the onscreen menu until the word **Install** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the **Install** menu features.
4. **Press the CURSOR UP ▲ or DOWN ▼ buttons** to scroll through the Install features until the word **Auto Chron** is highlighted.
5. **Press the CURSOR RIGHT ▶ button** to display the **Auto Chron** options- Auto and Manual.

## For Automatic selection

**With the Auto Chron™ options displayed,** and **Auto** highlighted; you can set the clock of the TV automatically.

6. **Using the CURSOR RIGHT ▶ button**, enter the **Time Zone** option. **Press the CURSOR UP ▲ or DOWN ▼ button** to select the time zone.
7. **Press the CURSOR RIGHT ▶ button** to display the **Daylight Saving Time** option. **Press the CURSOR UP ▲ or DOWN ▼ button** to select **YES** or **NO**.
8. **Press the CURSOR RIGHT ▶ button** to display the **Search for Time, Enter Channel** option. **Use the NUMBERED buttons** to enter the channel you want to seek the time.
9. **When finished, press the EXIT/INFO button** to remove the menu from the TV's screen.

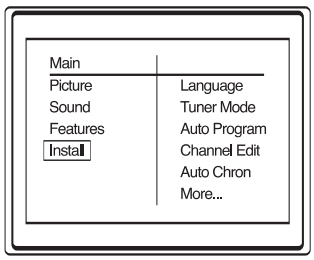
## For Manual selection

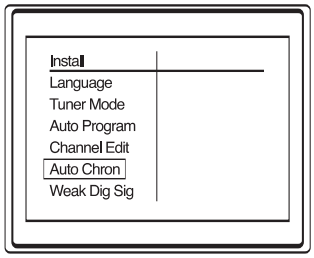
**With the Auto Chron options displayed,** and **Manual** highlighted; you can set the clock of the TV manually.

6. **Use the NUMBERED buttons** to set the time.
7. **Press the CURSOR LEFT ◀ or RIGHT ▶ button** to select **AM** or **PM**.
8. **When finished, press the EXIT/INFO button** to remove the menu from the TV's screen.

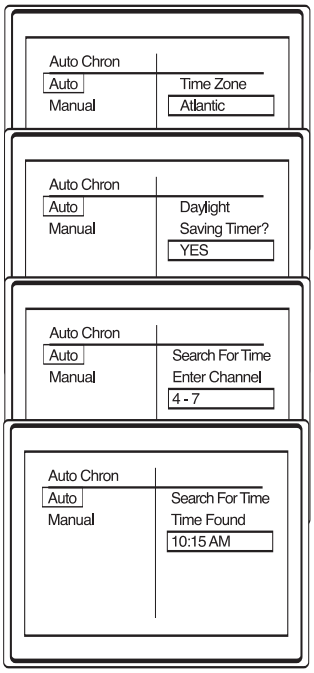
### HELPFUL HINT

To switch between Digital and Analog Channels, use the A/D button on the Remote Control.



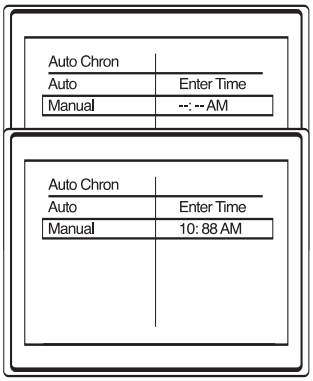



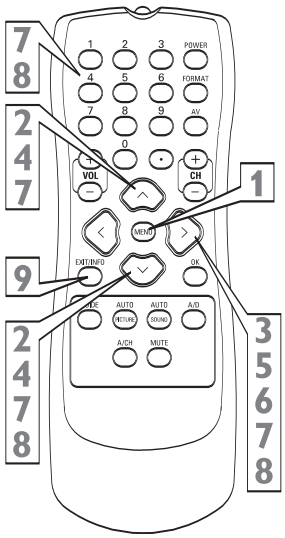

Automatic selection

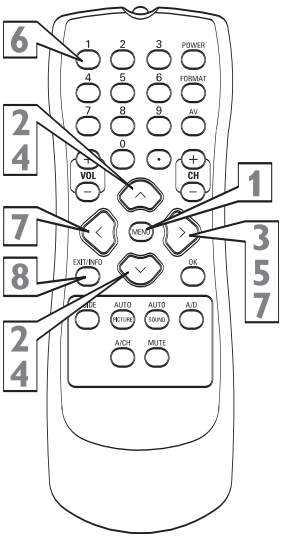



OR NO

Manual selection



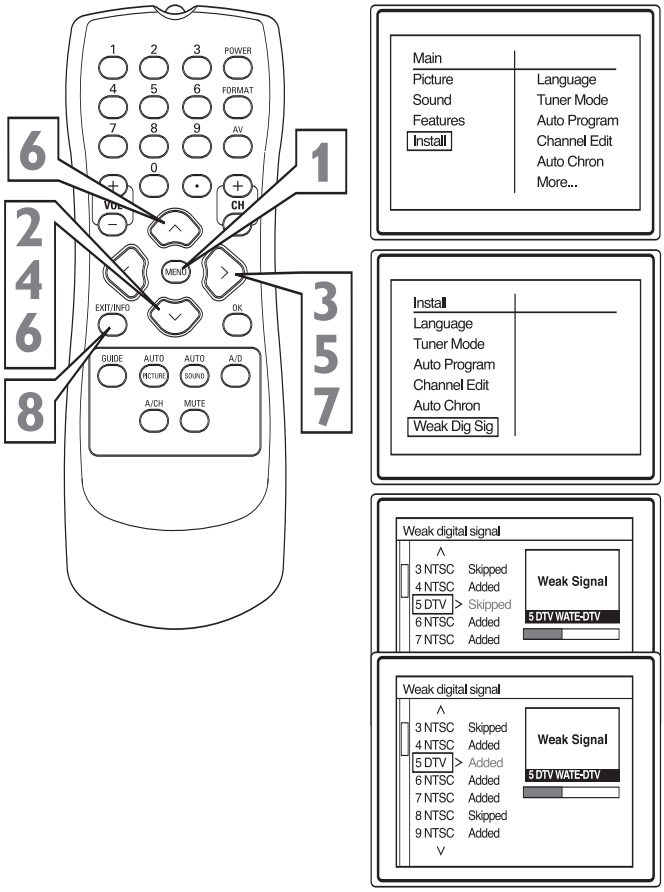



# WEAK DIGITAL SIGNAL

*This menu is present only for digital mode.*

*Weak Digital Signal feature makes it easy for you to ADD or DELETE channels with weak digital signal from the list of channels stored in the TV's memory.*

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN▼ buttons** to scroll though the onscreen menu until the word **Install** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the **Install** menu features.
4. **Press the CURSOR DOWN▼ buttons** to scroll through the Install features until the word **Weak Dig Sig** is highlighted.
5. **Press the CURSOR RIGHT ▶ button** to display the Weak Digital Signal options.
6. **Using the CURSOR UP ▲ or DOWN▼ button**, to scroll the menu to highlight the channel you wish to add or skip.
7. **Now use the CURSOR RIGHT ▶ button to toggle between Added or Skipped.** If **Skipped** is selected the channels is skipped when scrolling channels with the CH+ or CH- buttons. If **Added** is selected the channel is not skipped when scrolling channels with the CH+ or CH- buttons.
8. **When finished, press the EXIT/INFO button** to remove the menu from the TV's screen.

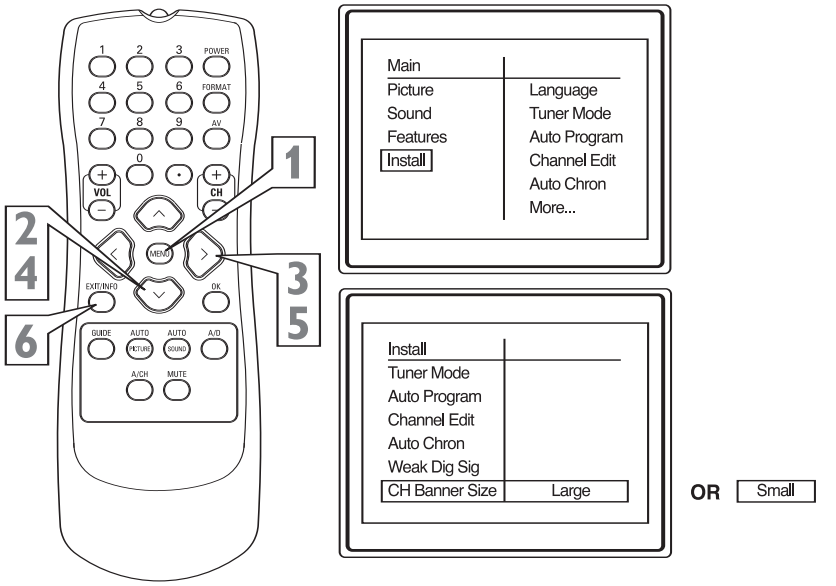



# INFORMATION BANNER - CHANNEL BANNER SIZE

*This menu is present only for digital mode. **PRESS** the **INFO** button to display channel number, channel name, sound mode, CC and rating. The quality and accuracy of info on the banner are transmitted from the broadcaster. You may see a difference in broadcast time if the broadcaster is from a different time zone.*

*Channel Banner Size feature allows you to select a small or large information banner.*

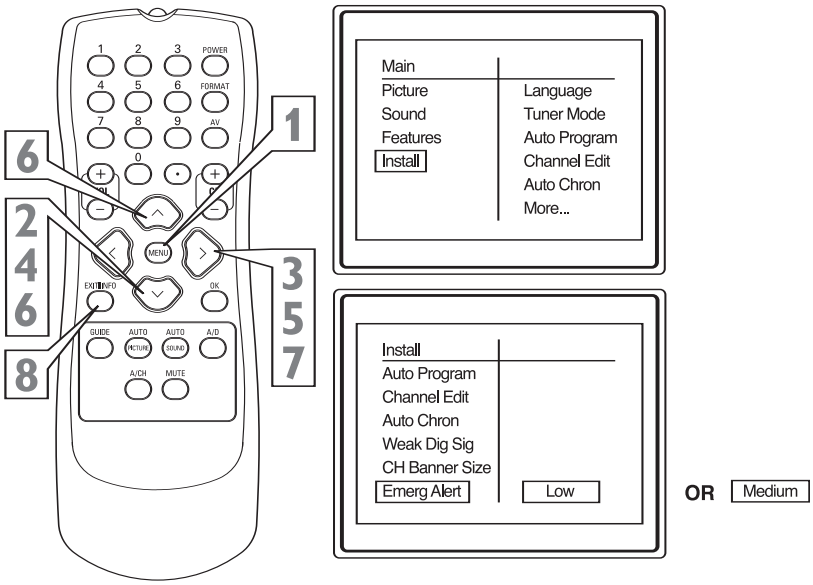
1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN ▼ button** to scroll through the onscreen menu until the word **Install** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the **Install** menu features.
4. **Press the CURSOR DOWN ▼ button** to scroll through the Install features until the word **CH Banner Size** is highlighted.
5. **Press the CURSOR RIGHT ▶ button** to select Small or Large.
6. **Press EXIT/INFO button** to exit menu.



# EMERGENCY ALERT

*This menu is present only for digital mode.*

*Emergency Alert allows you to display or discard emergency alert for Low or Medium priority.*



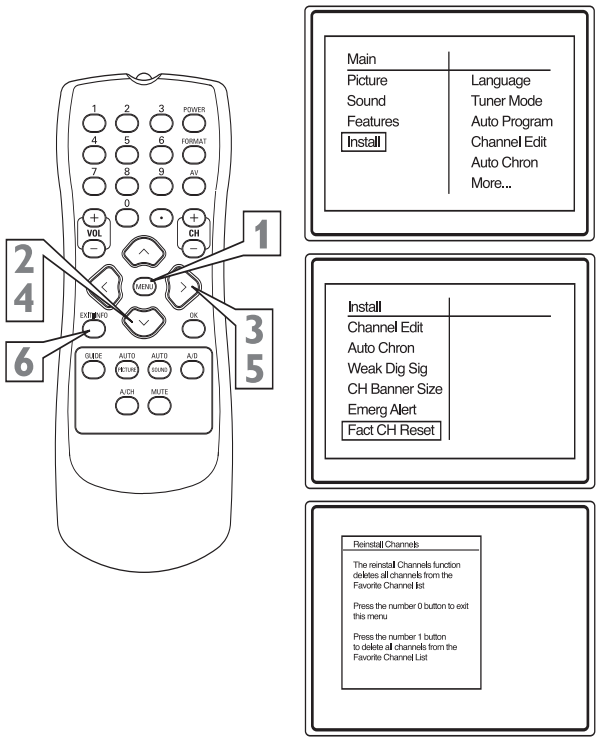

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN ▼ button** to scroll through the onscreen menu until the word **Install** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the **Install** menu features.
4. **Press the CURSOR DOWN ▼ button** to scroll through the Install features until the word **Emerg Alert** is highlighted.
5. **Press the CURSOR RIGHT ▶ button** to display the Emergency Alert options.
6. **Using the CURSOR UP ▲ or DOWN ▼ button**, to scroll the menu to highlight the Low or Medium priority
7. **Now use the CURSOR RIGHT ▶ button to toggle between Present or Discard**. If **Present** is selected, the TV will display the alert of that priority. If **Discard** is selected, the TV will not display the alert of that priority.
8. **When finished, press the EXIT/INFO button** to remove the menu from the TV's screen.

*** Emergency Alert may not be visible if no broadcast is received.**

# FACTORY CHANNEL RESET

*This menu is present only for digital mode.*

*Factory Channel Reset feature allows you to erase the contents of the master, user and favorite channel lists. This restores the TV to the initial state prior to the first Auto Program operation.*




1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN ▼ button** to scroll through the onscreen menu until the word **Install** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the **Install** menu features.
4. **Press the CURSOR DOWN ▼ button** to scroll through the Install features until the word **Fact CH Reset** is highlighted.
5. **CURSOR RIGHT ▶ button to follow the instruction in the menu** to reset the TV.
6. **When finished, press the EXIT/INFO button** to remove the menu from the TV's screen.

# ADJUSTING THE PICTURE CONTROLS

*To adjust your TV picture controls, select a channel and follow these steps. See descriptions of the picture-adjustment options below.*

1. **Press the MENU/SELECT button** on the remote control to show the onscreen menu.
2. **Press the CURSOR BUTTON RIGHT. BRIGHTNESS** will be highlighted and an adjustment bar will be shown to the right.
3. **Press the CURSOR RIGHT or LEFT** to adjust the **BRIGHTNESS** level of the picture. Or press the **CURSOR BUTTON DOWN** to select another picture control to adjust.
4. **Press the EXIT/INFO button** to exit the menu.
5. **To switch between Digital and Analog Channels,** use the **A/D** button on the Remote Control.

## Picture-adjustment Options

Remember, when the bar scale is centered , the control settings are at midrange levels. Picture adjustments are described as follows:

**BRIGHTNESS** adds or subtracts light from the darkest part of the picture.

**COLOR** adds or eliminates color.

**PICTURE** improves the detail of the lightest parts of the picture.

**SHARPNESS** improves the detail in the picture.

**TINT** adjusts the picture to obtain natural skin tones.

**COLOR TEMP** offers NORMAL, COOL, or WARM picture preferences.

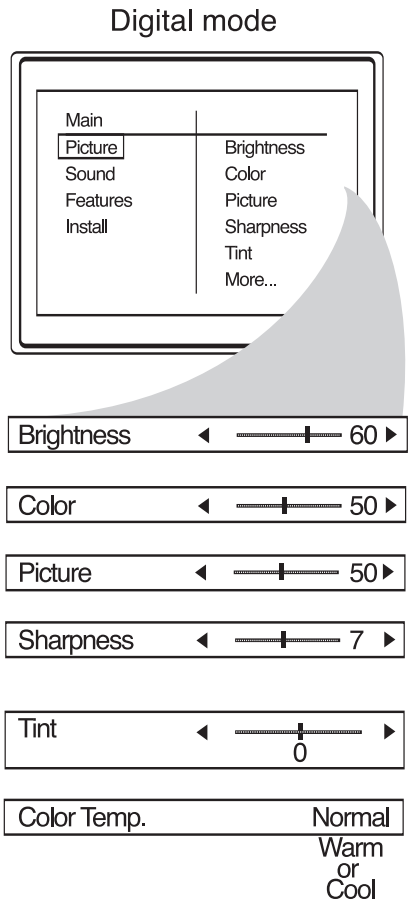
**NORMAL** keeps whites, white.

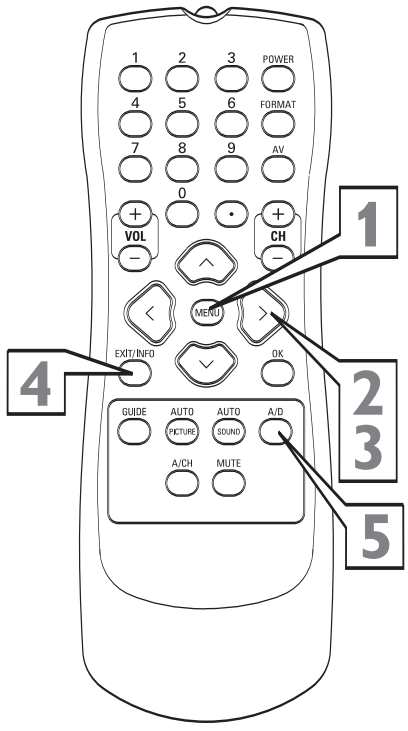
**WARM** makes whites, reddish.

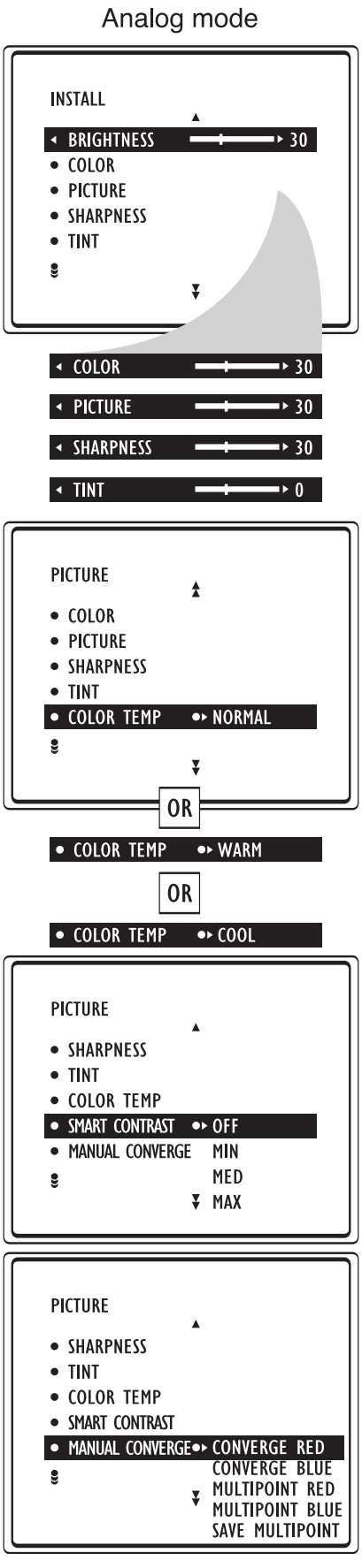
**COOL** makes whites, bluish.

***SMART CONTRAST** sharpen the picture quality by making dark portions of the picture darker and light portions of the picture more noticeable.

Note* : Applicable to Analog mode only.



# ADJUSTING THE MANUAL CONVERGE CONTROLS

## CONVERGE RED/BLUE

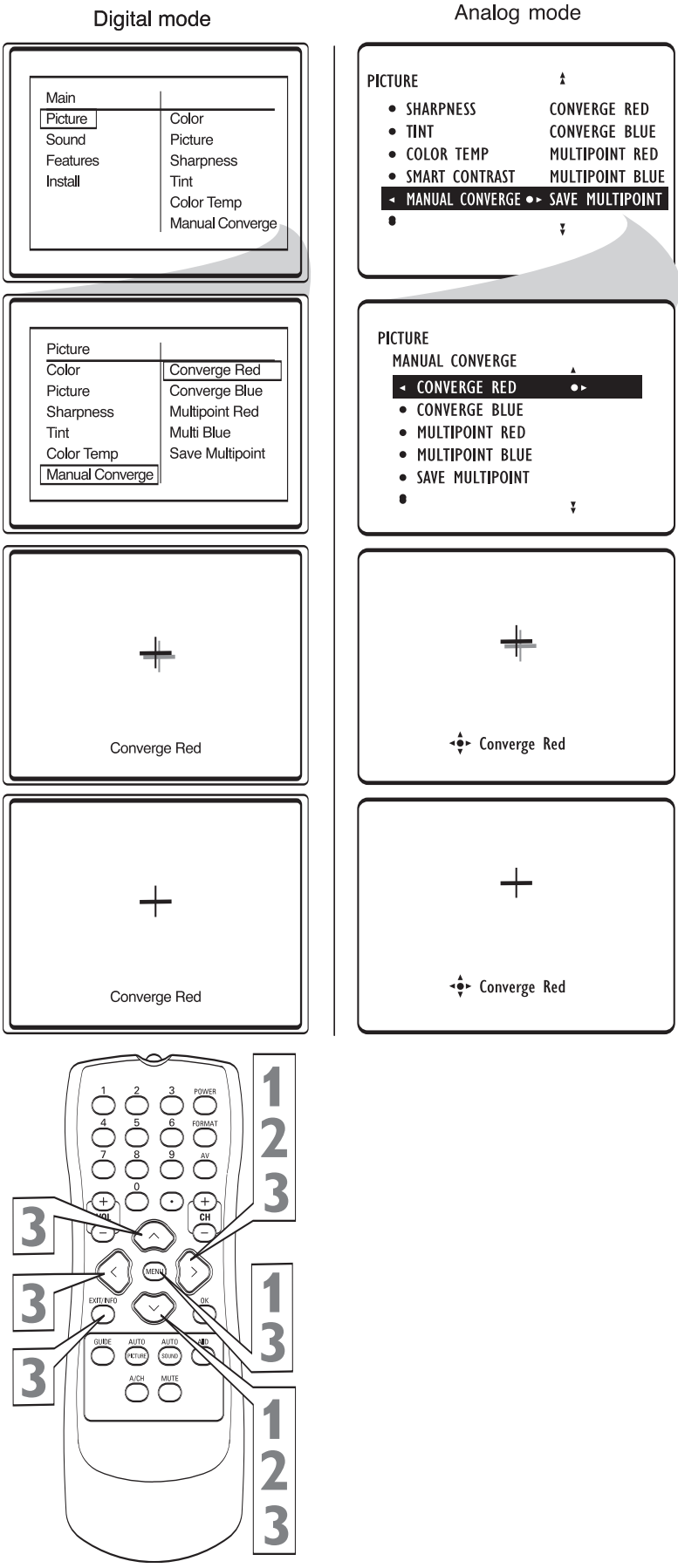
*Convergence is the correct lining up of the red and blue light paths on the TV screen. If the paths don't line up, color fringes will appear around objects on screen. If no color fringes show, then no convergence adjustments are necessary.* ***NOTE:*** *Allow the TV to warm up 20 minutes before adjusting convergence. See the chart to the right for guidance as to which convergence controls to use.*

**1** **Press the MENU button.** The menu appears. Press the **CURSOR BUTTON RIGHT** to enter the PICTURE submenu. **Then press the CURSOR BUTTON DOWN** until **MANUAL CONVERGE** is highlighted.

**2** **Press the CURSOR BUTTON RIGHT** to enter the **MANUAL CONVERGE** submenu. If you want to adjust the Red Convergence, press the **CURSOR BUTTON RIGHT** to enter the adjust mode. If you want to adjust the Blue Convergence, **press the CURSOR BUTTON DOWN** to highlight **CONVERGE BLUE,** then press the **CURSOR BUTTON RIGHT** to enter adjust mode.

**3** **In adjust mode, press the CURSOR BUTTON RIGHT, LEFT, UP, or DOWN** to adjust the cross hair until the color outline around it is gone. (The adjustment is automatically saved in the TV's memory.) To return to the **MANUAL CONVERGE** menu, press the **MENU** button. To exit the onscreen display, press the **EXIT/INFO button**.

| Screen appearance | Action |
|---|---|
| Various images throughout the entire picture have red outlines. | Adjust the CONVERGE RED control. Then if any red outlines remain, adjust the MULTIPOINT RED control. |
| Various images throughout the entire picture have blue outlines. | Adjust the CONVERGE BLUE control. Then if any blue outlines remain, adjust the MULTIPOINT BLUE control. |



# ADJUSTING THE MANUAL CONVERGE CONTROLS

## MULTIPOINT RED/BLUE

*The Multipoint Red/Blue Convergence controls enable you to adjust the convergence at specific points on the TV screen.*

***NOTE:** The onscreen display will leave the screen after 20 seconds of inactivity. If this happens, simply press the MENU button to bring the MANUAL CONVERGE submenu back.*

**1** **Press the MENU button**. The menu appears. Press the **CURSOR BUTTON RIGHT** to enter the **PICTURE** menu. Then press the **CURSOR BUTTON DOWN** until **MANUAL CONVERGE** is highlighted.

**2** **Press the CURSOR BUTTON RIGHT** to enter the **MANUAL CONVERGE** submenu. **Press the CURSOR BUTTON DOWN** until **MULTIPOINT RED** or **MULTIPOINT BLUE** is highlighted. Then press the **CURSOR BUTTON LEFT** or **RIGHT** to enter Navigate mode.

**3** **Press the CURSOR BUTTON LEFT, RIGHT, UP, or DOWN** to move to a cross hair that has a color outline. Then press the **EXIT/INFO button** to enter adjust mode.

**4** **Press the CURSOR BUTTON LEFT, RIGHT, UP, or DOWN** to adjust the cross hair image until the color outline is gone.Then press the EXIT button to return to NAVIGATE mode. Repeat steps 3 and 4 until all misaligned cross images have been adjusted.

**5** **After making your adjustments, you must store them in the TV's memory using SAVE MULTIPOINT. NOTE:** If you are not satisfied with the adjustments you just made and want to start over, you can use the UNDO MULTIPOINT control. This control allows you to undo the adjustments, but it will work only if you use it before saving.

**To save your multipoint adjustments, press the MENU button.** This returns you to the **MANUAL CONVERGE** menu. Press the **CURSOR BUTTON DOWN** until **SAVE MULTIPOINT** is highlighted. Then press the **CURSOR BUTTON LEFT** or **RIGHT** to store your adjustments in the TV's memory.

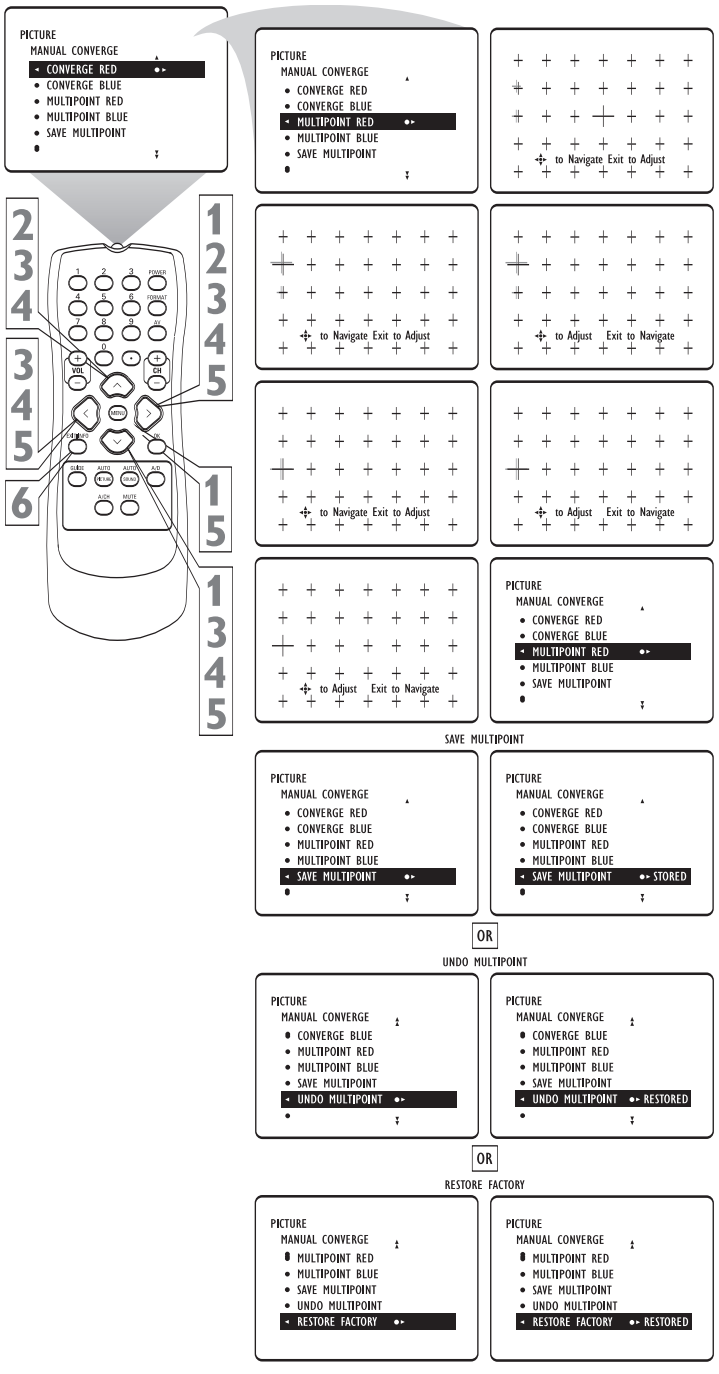
**OR**

**To undo the multipoint adjustments you just made, press the MENU button.** This returns you to the MANUAL CONVERGE menu. Press the CURSOR BUTTON DOWN until UNDO MULTIPOINT is highlighted. Press the CURSOR BUTTON LEFT or RIGHT to undo the adjustments. Press the CURSOR BUTTON UP until MULTIPOINT RED or MULTIPOINT BLUE is highlighted. Press the CURSOR BUTTON LEFT or RIGHT to enter Navigate mode. Then Follow steps 3–5 above to make your adjustments again.

**OR**

**To restore the TV's convergence to factory settings, press the MENU button.** This returns you to the MANUAL CONVERGE menu. Press the CURSOR BUTTON DOWN until RESTORE FACTORY is highlighted. Then press the CURSOR BUTTON LEFT or RIGHT to restore the TV's convergence to factory settings.

**6** **Press the EXIT/INFO button** to exit the submenu.




### HELPFUL HINT

If you should experience a power outage before saving your multipoint-convergence settings, your settings will be lost.

# SOUND MENU CONTROLS

*To adjust your TV sound, select and use the Sound Menu Controls listed below:*

**1** **Treble: Press the CURSOR ▶ or ◀ buttons** to adjust the control. The control will enhance the high frequency sounds.

**2** **Bass: Press the CURSOR ▶ or ◀ buttons** to adjust the control. The control will enhance the low frequency sounds.

**3** **Balance:** Press the **CURSOR ▶ or ◀ buttons** to adjust the level of sound coming from the left and right speakers.

**4** **AVL:** (Auto Volume Leveler) **Press the CURSOR ▶ or ◀ buttons** to turn the control On or Off. When On, AVL will level out the sound being heard when sudden changes in volume occur during commercial breaks or channel changes.

**5** **Incr. Surround: Press the CURSOR ▶ or ◀ buttons** to select between Dolby Virtual or Stereo settings (If Stereo), or select Spatial or Mono (If Mono).

**For Analog Mode Only:**

**6** **SAP: Press the CURSOR ▶ or ◀ buttons** to toggle this control to On or Off. SAP is short for Secondary Audio Programming and is sent as a third audio channel, a SAP signal can be heard apart from the current TV program sound.Note: If SAP is not present on a selected show No SAP will appear on the screen.

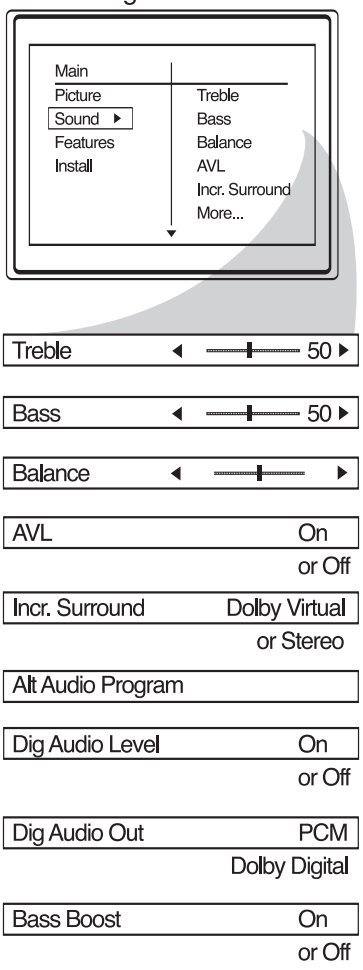
**7** **Stereo: Press the CURSOR ▶ or ◀ buttons** to select between Stereo or Mono settings. Note: If Stereo is not present on a selected show and the TV is placed in the Stereo mode, the sound coming from the TV will remain in the Mono mode.

**8** **Alt Audio Program: Press the CURSOR ▶** to select the appropriate language.

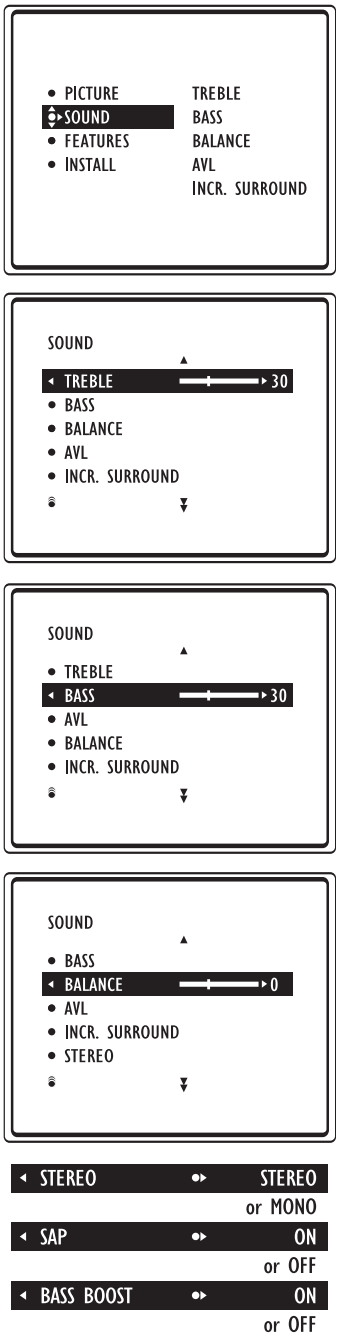
**For Digital Mode Only:**

**9** **Bass Boost: Press the CURSOR ▶ or ◀ buttons** to toggle this control to On or Off. The Bass Boost control allows you to increase the low-frequency range of the TV's sound. This creates a deeper, fuller sound.

Digital mode




Analog mode




## HELPFUL HINT

To switch between Digital and Analog channels, use the A/D button on the Remote Control.

DOLBY DIGITAL

* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories.

# How to use the Timer Menu Controls

*Your television comes with an onscreen clock. The TV can also be set to turn on or off at a specific time and tune to a specific channel when it powers itself on.*

**1** **Press the MENU button** on the remote control to display the onscreen menu.

**2** **Press the CURSOR DOWN ▼ button** until **Features** is highlighted.

**3** **Press the CURSOR RIGHT ▶ button** to display the **Features** menu.

**4** **Press the CURSOR RIGHT ▶ button** to display the **Timer** menu.

**5** **Press the CURSOR UP ▲ or DOWN ▼ buttons** to highlight one of the Timer controls. These controls are Time, Start Time, Stop Time, Channel, Activate, and Display.

**6** **Press the CURSOR RIGHT ▶ button** to display the menu for the selected item. Make adjustments to the selected items by following the steps below.

**Time**: Enter the current time using the Numbered buttons. For Digital mode, use the **CURSOR RIGHT ▶ or CURSOR LEFT ◀ buttons** to toggle the AM and PM setting. For Analog mode, use the **CURSOR UP ▲** or **CURSOR DOWN ▼** button to toggle the AM and PM setting.

**Start Time:** Use the numbered buttons to enter the time you want the TV to turn itself On. For Digital mode, use the **CURSOR RIGHT ▶ or CURSOR LEFT ◀ buttons** to toggle the AM and PM setting. For Analog mode, use the **CURSOR UP ▲** or **CURSOR DOWN ▼ buttons** to toggle the AM and PM setting.

**Stop Time:** For Digital mode, use the numbered buttons to enter the time you want the TV to turn itself Off. For Analog mode, use the **CURSOR RIGHT ▶ or CURSOR LEFT ◀ buttons** to toggle the AM and PM setting.

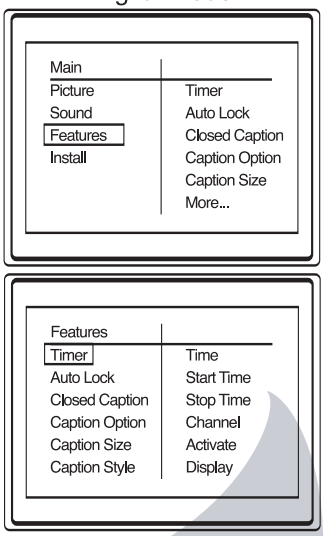
**Channel:** Use the NUMBERED buttons or the CH + or CH- buttons to enter the desired startup channel.

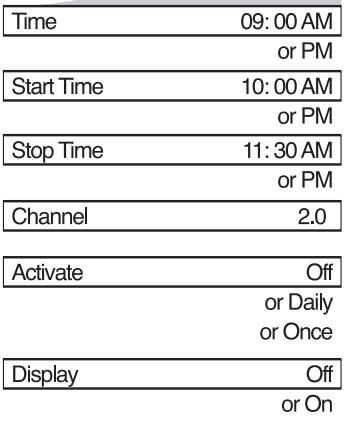
**Activate:** Set the timer to turn itself On or Off Once or Daily. Press the **CURSOR RIGHT ▶ or CURSOR LEFT ◀ buttons** to select Once, Daily, or Off.

**Display:** Press the **CURSOR RIGHT ▶ or CURSOR LEFT ◀ buttons** to toggle between On or Off. If On is selected, the time will be displayed all the time when the TV is on. When Off is selected, the time will only appear when the **EXIT/INFO button** is pressed.

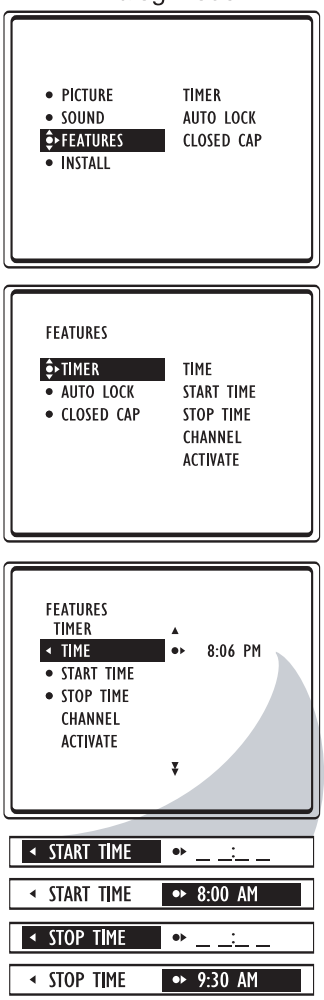
**7** **Press the EXIT/INFO button** to remove the onscreen menu from the TV screen.

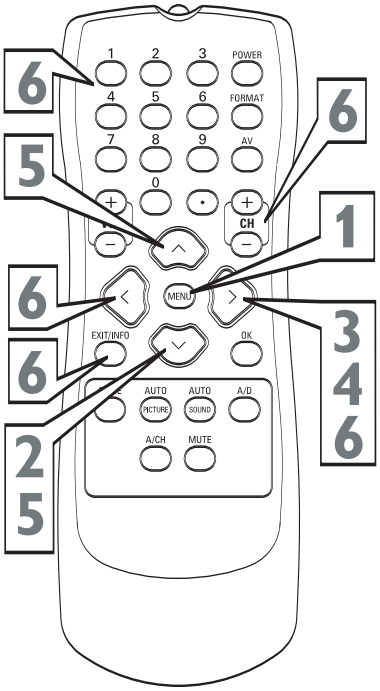
Digital mode




Analog mode




## Helpful Hints

Remember, be sure to press "0" and then the hour number for single digit entries.

The TV's clock settings may be lost when the TV is unplugged or when AC power to the set is interrupted.

# UNDERSTANDING AUTOLOCK

*The AutoLock™ feature can help parents control what their children watch on TV. AutoLock™ does this by using the content advisories sent by broadcasters or other program providers. After you program AutoLock™, it can respond to the content advisories and block programs that contain content that you may consider objectionable — offensive language, violence, or sexual situations. You can also use AutoLock™ to block channels that you don't want your children to watch.*

*In this section, you'll learn how to block channels and programming that is not rated, is unrated, or has no rating. You will also find out how to turn these blocking features on or off. Following on this page are brief explanations of AutoLock™ terms and program ratings.*

**Terms**

**BLOCKING control —** can be thought of as the "master switch" for AutoLock™. This control affects the settings you have chosen for blocking programs according to movie ratings or TV ratings, or for blocking programs that have no rating or are unrated. When the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen.

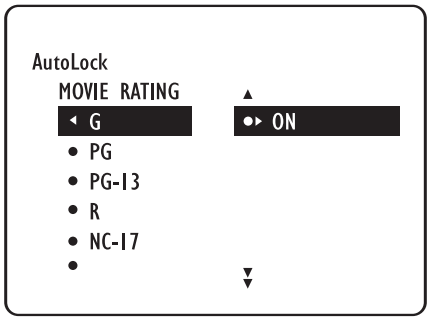
**BLOCK UNRATED control —** if set to ON, blocks all unrated programs.

Unrated programming consists of the kind of shows that the MPAA (Motion Picture Association of America) or the TV broadcasters have chosen not to rate.

**NO RATING control—**if set to ON, blocks all programming with no content advisory data.

Programming that has No Rating is not encoded with any rating information from the MPAA or the Parental Guidelines. Any programming could fall into this category.

**BLOCK CHANNEL control—**enables you to block individual channels that you don't want children to see.




## MOVIE RATINGS
### (MOTION PICTURE ASSOCIATION OF AMERICA)

**G (General Audience)**—all ages admitted. Most parents will find programs that are rated G to be suitable for children of all ages. Such programs have little or no violence, no strong language, and little or no sexual dialog or sexual situations.

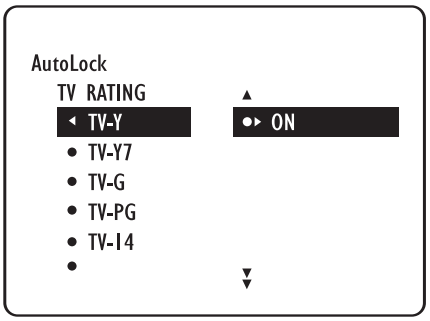
**PG (Parental Guidance Suggested)** — contain material that parents may find unsuitable for younger children. Programs that are rated PG have one or more of the following: moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialog.

**PG-13 (Parents Strongly Cautioned)—** contain material that parents may find unsuitable for children under the age of 13. Programs that are rated PG-13 have one or more of the following: violence, sexual situations, coarse language, or suggestive dialog.

**R (Restricted**)—specifically designed for adults. Anyone under the age of 17 should view programs that are rated R only with an accompanying parent or adult guardian. Such programs have one or more of the following: intense violence; intense sexual situations; strong, coarse language; or intensely suggestive dialogue.

**NC-17 (No one under the age of 17 will be admitted)**—should be viewed by adults only. Programs that are rated NC-17 have graphic violence; explicit sex; or crude, indecent language.

**X (Adults Only)**—contain one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, or very coarse and intensely suggestive language.




## TV PARENTAL GUIDELINES
### (TV BROADCASTERS)

**TV-Y** (**All Children)**—designed to be appropriate for all children, especially ones ages 2–6. Programs rated TV-Y are not expected to frighten younger children.

**TV-Y7** (**Directed to Older Children)**—designed for children ages 7 and older. Programs rated TV-Y7 may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. Such programs may include mild fantasy and comic violence (FV).

**TV-G** (**General Audience**)—most parents will consider programs that are rated TV-G to be suitable for children of all ages. Such programs have little or no violence, no strong language, and little or no sexual dialogue or sexual situations.

**TV-PG** (**Parental Guidance Suggested)**—contain material that parents may find unsuitable for younger children. This type of programming has one or more of the following: moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

**TV-14** (**Parents Strongly Cautioned**—contain material that many parents will find unsuitable for children under 14 years of age. Such programs have one or more of the following: intense violence (V); intense sexual situations (S); strong, coarse language (L); or intensely suggestive dialogue (D).

**TV-MA** (**Mature Audience Only)**—specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. Such programs have one or more of the following: graphic violence (V); explicit sexual situations (S); or crude, indecent language (L).

# BLOCK CHANNELS PART 1 - SETTING UP AN ACCESS CODE

*Over the next few panels you'll learn how to block channels and get a better understanding of the rating terms for certain programming. First, let's start by learning how to set a personal access code:*

**1** **Press the MENU button** on the remote to display the onscreen menu.

**2** **Press the CURSOR UP ▲ or DOWN ▼ buttons** until the word **Features** is highlighted.

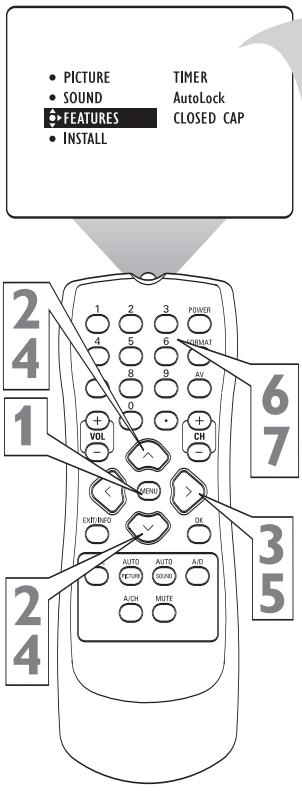
**3** **Press the CURSOR RIGHT ▶ button** to display the Features menu options.

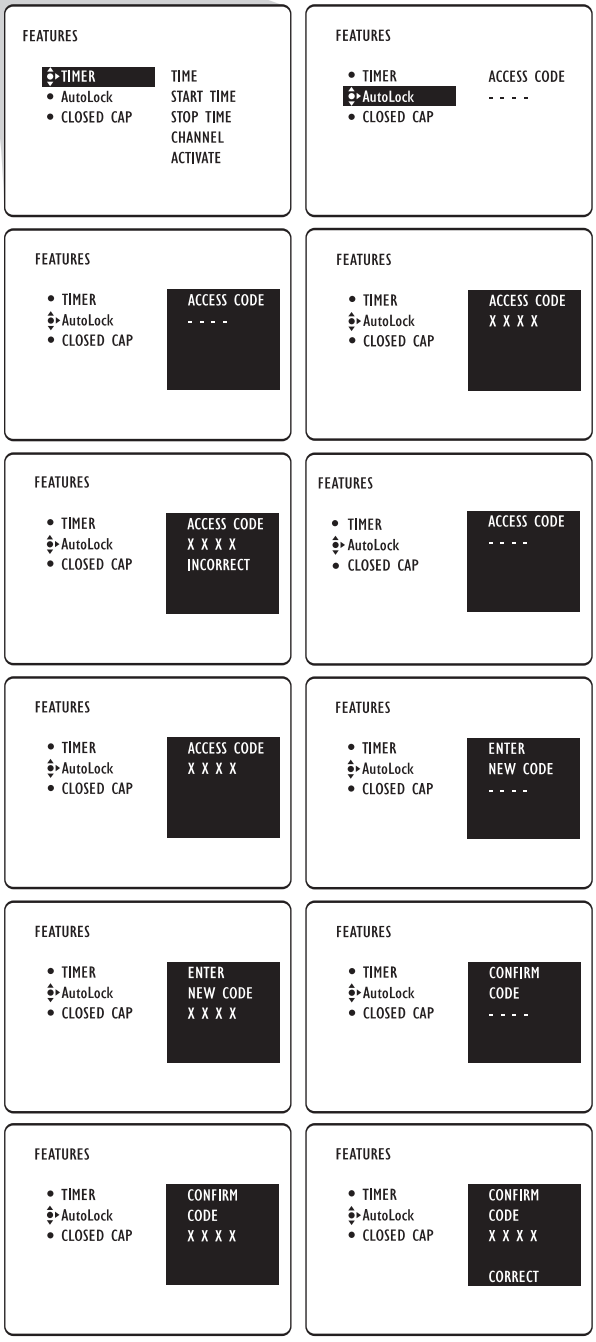
**4** **Press the CURSOR UP ▲ or DOWN ▼ buttons** until the words AutoLock are highlighted.

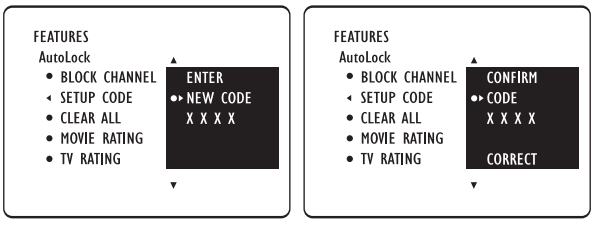
**5** **Press the CURSOR RIGHT ▶ button.** The screen will read, **"Access Code - - - - ."**

**6** **Using the NUMBERED buttons, enter 0, 7, 1, 1. "XXXX"** appears on the Access Code screen as you press the numbered buttons. **"Incorrect Code"** will appear on the screen, and **you will need to enter 0, 7, 1, 1 again.**

**7** **For analog mode:** The screen will ask you to enter a "New Code." **Enter a "new" 4 digit code using the NUMBERED buttons.** The screen will then ask you to **CONFIRM** the code you just entered. **Enter your new code again. "XXXX"** will appear when you enter your new code and then display the AutoLock™ menu options.




You can also set up a new access code from the main AutoLock™ Submenu using the SETUP CODE option. Simply enter and confirm the new Code to activate it.

## HELPFUL HINTS

- An X appears on screen to confirm the receipt of each digit by the TV as you input your AutoLock™ access code.
- Parents, it isn't possible for your child to unblock a channel without knowing your access code or changing it to a new one. If you discover that your access code has been changed, you can assume that blocked channels may have been viewed.

# BLOCK CHANNELS PART 2

*After your personal access code has been set (see previous page), you are now ready to select the channels you want to block out or censor.*
*Once you've entered your access code and the AutoLock™ features are displayed on the screen:*

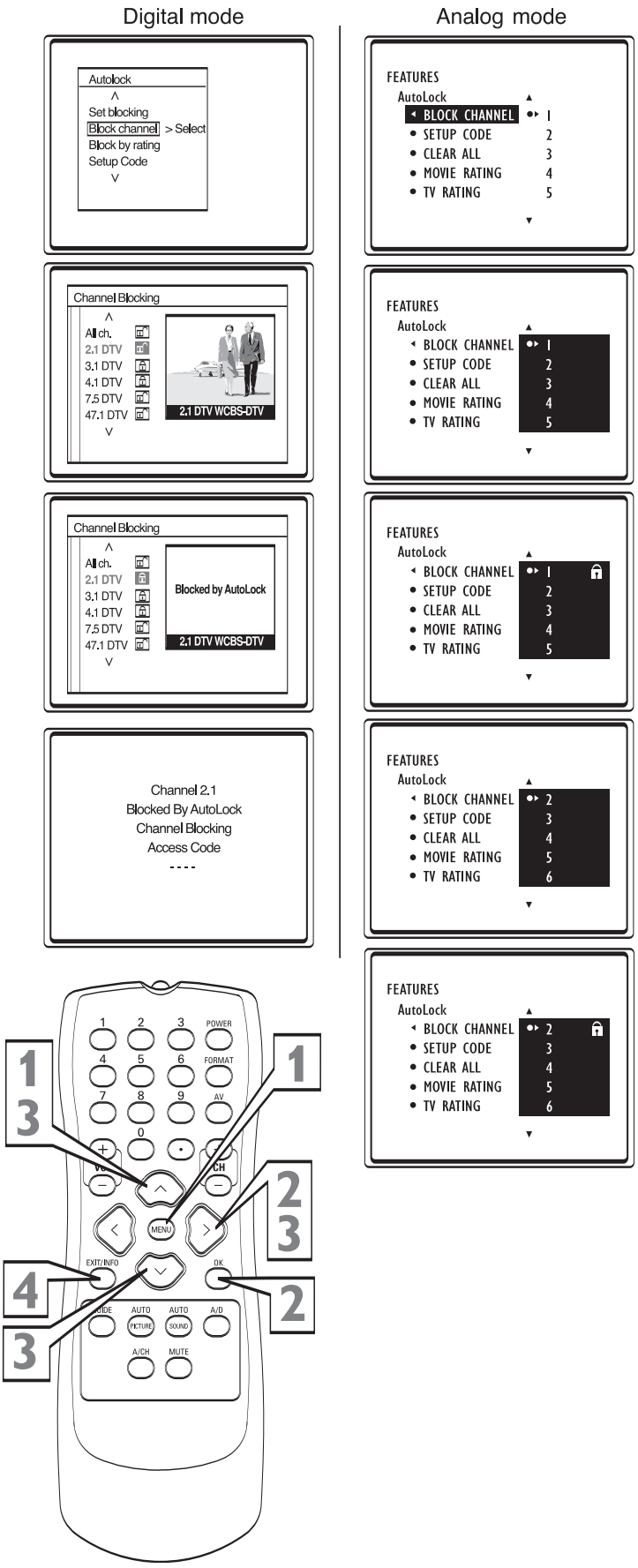
**1** **Press the CURSOR UP ▲ or DOWN ▼ buttons** until the words **Block Channel** are high lighted.

**2** **For digital mode:**
**Press the CURSOR RIGHT ▶ button** to enter the Channel Blocking menu. **Press OK** to lock or unlock the channel.
**For analog mode:**
**Press the CURSOR RIGHT ▶ button** to block the channel. A padlock symbol will appear on the right of the channel number. If you decide not to block the channel, **press the CURSOR RIGHT ▶ button** again to remove the block (The padlock symbol disappears).

**3** **Repeat steps 1-2** to block another channel.

**4** **When finished, press the EXIT/INFO button** to remove the menu from the screen.

**NOTE**: If you ever forget your code, the 0, 7, 1, 1 code is the factory default and can be used to enter and create a new access code. Enter the above number twice.




## HELPFUL HINT

Use the A/D button on the Remote Control to switch between Digital and Analog channels.

# BLOCK/CLEAR ALL CHANNELS AT THE SAME TIME

*After blocking specific channels there may come a time when you want to block or clear all the channels at the same time.*
*Once you've entered your access code and the AutoLock™ features are displayed on the screen:*

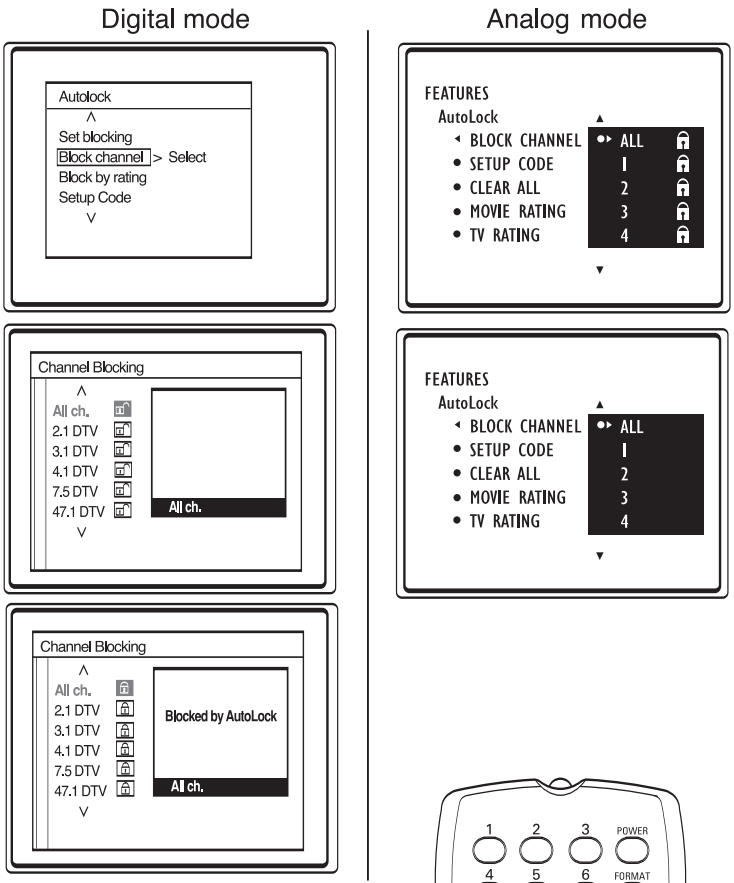
**1** **For digital mode:**
**Press the CURSOR DOWN ▼ button** to select Block channel. **Press the CURSOR RIGHT ▶ button** to enter the Channel blocking menu.
**For analog mode:**
**Press the CURSOR DOWN ▼ button** to select ALL.

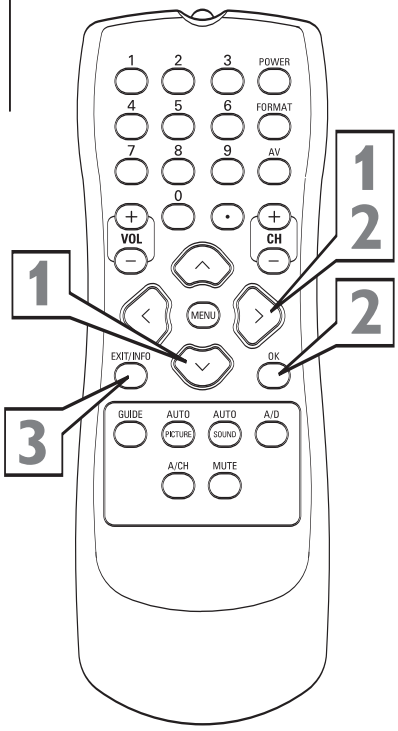
**2** **For digital mode:**
**If All ch. is locked, press the OK button** to clear all blocked channels. All channels will be viewable.
**If All ch. is unlocked, press the OK button** to lock all channels. When this is done, ALL available channels will be blocked from viewing.

**For analog mode:**
**If press the CURSOR RIGHT ▶ button** to clear all blocked channels. All channels will be viewable.

**3** **When finished, press the EXIT/INFO button** to remove the menu from the screen.

**NOTE:** If you ever forget your code, the 0, 7, 1, 1 code is the factory default and can be used to enter and create a new access code. Enter the above number twice.




## HELPFUL HINT

Use the A/D button on the Remote Control to switch between Digital and Analog channels.

# MOVIE RATINGS

*The AutoLock™ feature can block programming based on the Movie Industry ratings.*
*Once you've entered your access code and the AutoLock™ features are displayed on the screen:*

**1** **For digital mode:**
**Press the CURSOR DOWN ▼ button** to highlight the words **Block by Rating**.

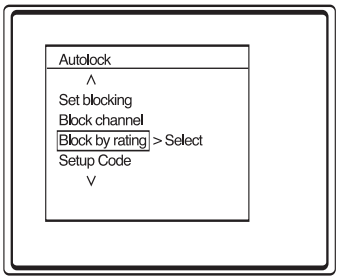
**For analog mode:**
**Press the CURSOR DOWN ▼ button** to highlight the words **Movie Rating**.

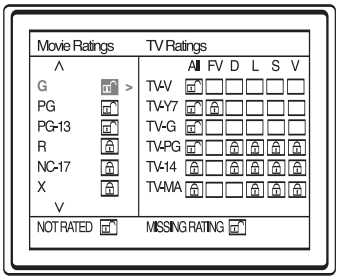
**2** **Press the CURSOR RIGHT ▶ button** to display the **Movie Rating** options (G, PG, PG-13, R, NC17, or X).

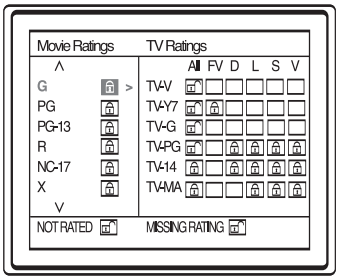
**3** **For digital mode:**
**Press the CURSOR UP ▲ or DOWN ▼ buttons** to highlight any of the Movie Rating options. When highlighted, all these options can be turned **On** *(which will allow blocking)* or **Off** *(which will allow viewing).*
**Use the OK button** on the remote to turn the rating option On or Off.

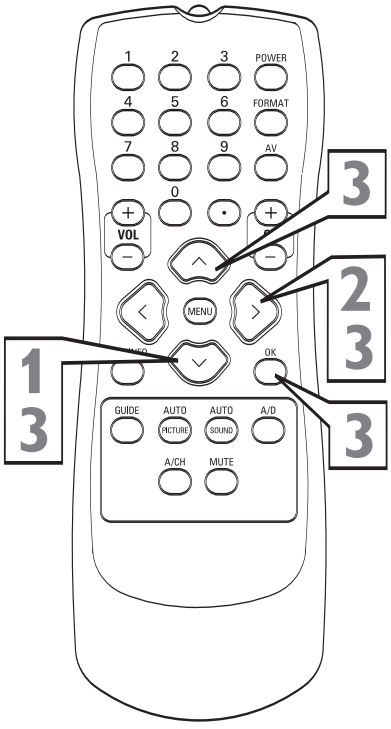
**For analog mode:**
**Use the CURSOR RIGHT ▶ button** on the remote to turn the rating option On or Off.

Digital mode

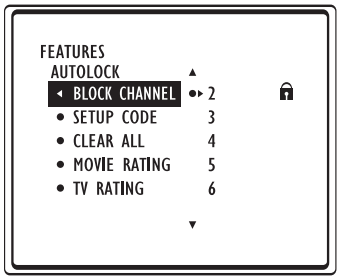


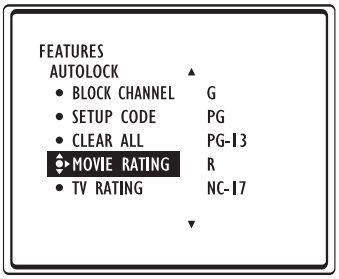



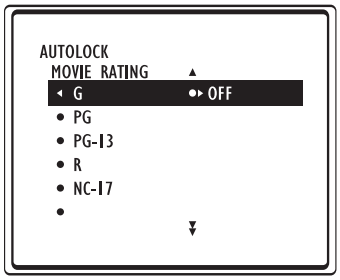



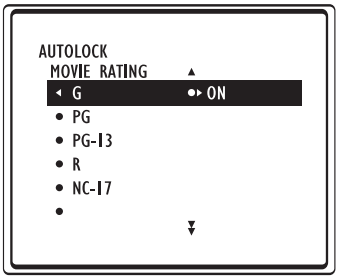




Analog mode




## HELPFUL HINT

Use the A/D button on the Remote Control to switch between Digital and Analog channels.

When a rating level is chosen to be blocked, any higher level rating will also be blocked from viewing. (i.e.: If "R" is selected to be blocked, NC-17 and X will automatically be blocked.)

**NOTE:** If you ever forget your code, the 0, 7, 1, 1 code is the factory default and can be used to enter and create a new access code.

# TV RATINGS

*The AutoLock™ feature can block programming based on the TV Industry ratings.*
*Once you've entered your access code and the AutoLock™ features are displayed on the screen:*

**1** **For digital mode:**
**Press the CURSOR DOWNPress the CURSOR UP ▲ or DOWN ▼ button** to highlight the words **Block by Rating**.

**2** **For analog mode:**
**Press the CURSOR DOWNPress the CURSOR UP ▲ or DOWN ▼ button** to highlight the words **TV Rating**.
**Press the CURSOR RIGHT ▶ button** to display the **TV Rating** options (TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA).

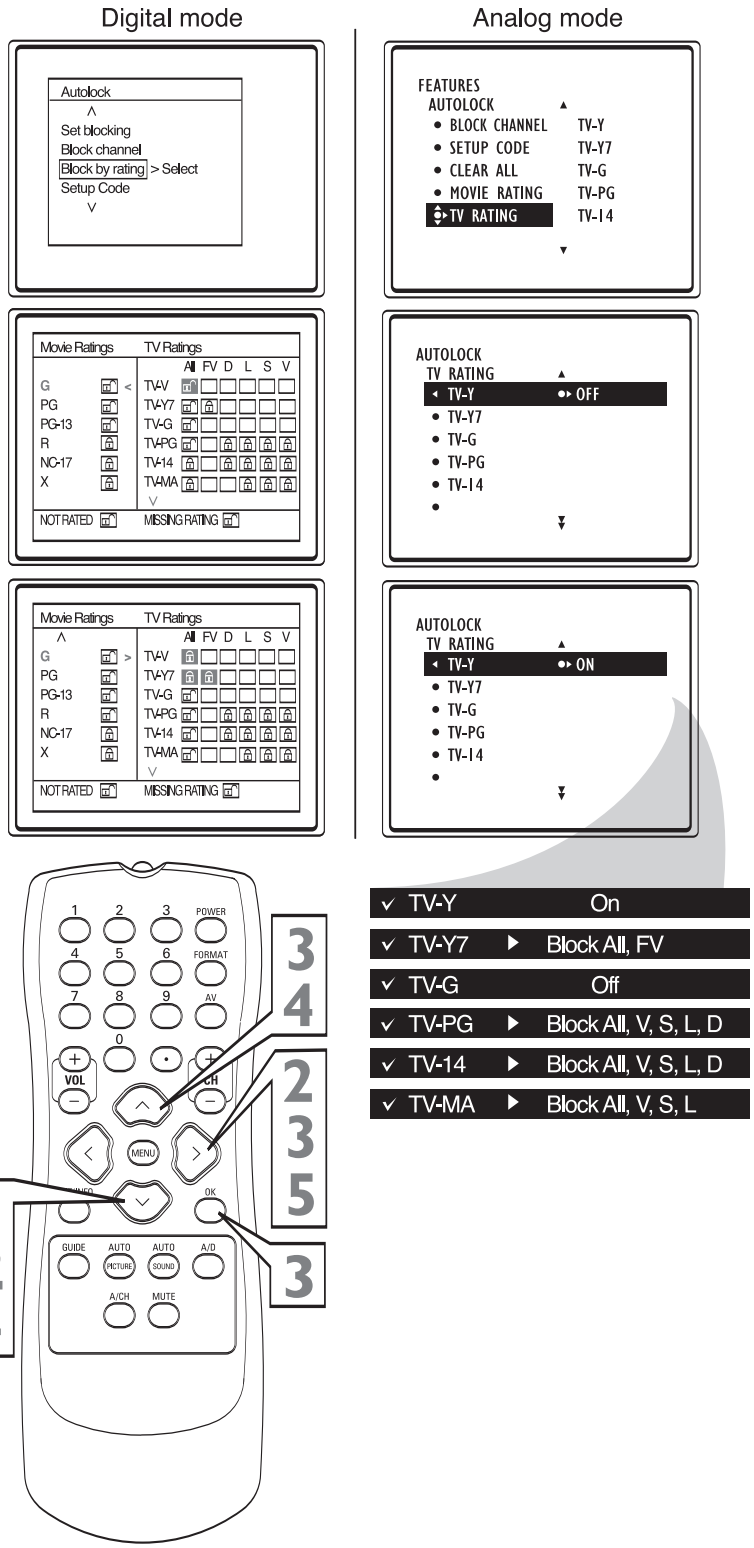
**NOTE:** Some TV RATING options also have sub-ratings. The ratings of TV-Y7, TV-PG, TV-14, TV-MA can be customized to block V (violence), FV (fantasy violence), S (sexual situations), L (coarse language), or D (suggestive dialogue).

**3** **For digital mode:**
**Press the CURSOR UP ▲ or DOWN ▼ buttons** to highlight any of the TV Rating options. When highlighted, all these options can be turned **On** *(which will allow blocking)* or **Off** *(which will allow viewing).*
**Press the OK button** on the remote to turn the rating On or Off. The sub-ratings TV-Y7, TV-PG, TV-14 or TV-MA can remain On when these ratings are Off.

**For analog mode:**
**Press the CURSOR RIGHT ▶ button** on the remote to turn the TV-Y or TV-G rating On or Off. **Or, press the CURSOR RIGHT ▶ button** to enter the sub-menus for the TV-Y7, TV-PG, TV-14 or TV-MA ratings.

**4** If the TV-Y7, TV-PG, TV-14 or TV-MA sub-menu is accessed, **press the CURSOR ▲ or DOWN ▼ buttons** to select one of the options (Block All, V, S, L, D, or FV).

**5** **Press the CURSOR RIGHT ▶ button** on the remote to turn the option ON or OFF.




✓ TV-Y On
✓ TV-Y7 ▶ Block All, FV
✓ TV-G Off
✓ TV-PG ▶ Block All, V, S, L, D
✓ TV-14 ▶ Block All, V, S, L, D
✓ TV-MA ▶ Block All, V, S, L

## HELPFUL HINT

Use the A/D button on the Remote Control to switch between Digital and Analog channels.

# BLOCKING OPTIONS

*AutoLock offers the viewer other blocking features as well. With these Blocking Options, the censoring can be turned ON or OFF.*
*Once you've entered your access code and the AutoLock™ features are displayed on the screen:*

**1** **For digital mode:**
**Press the CURSOR DOWN ▼ button** to highlight the words **Block by Rating. Press the CURSOR RIGHT ▶ button** to display blocking option. **Press the CURSOR RIGHT ▶ button** to display blocking options.

**For analog mode:**
**Press the CURSOR DOWN ▼ button** to highlight the words **Block Options**.

**2** **For digital mode:**
**Press the CURSOR DOWN ▼ button** to highlight the words **Not Rated** or **press the CURSOR RIGHT ▶ button** to highlight the words **Missing Rating**.

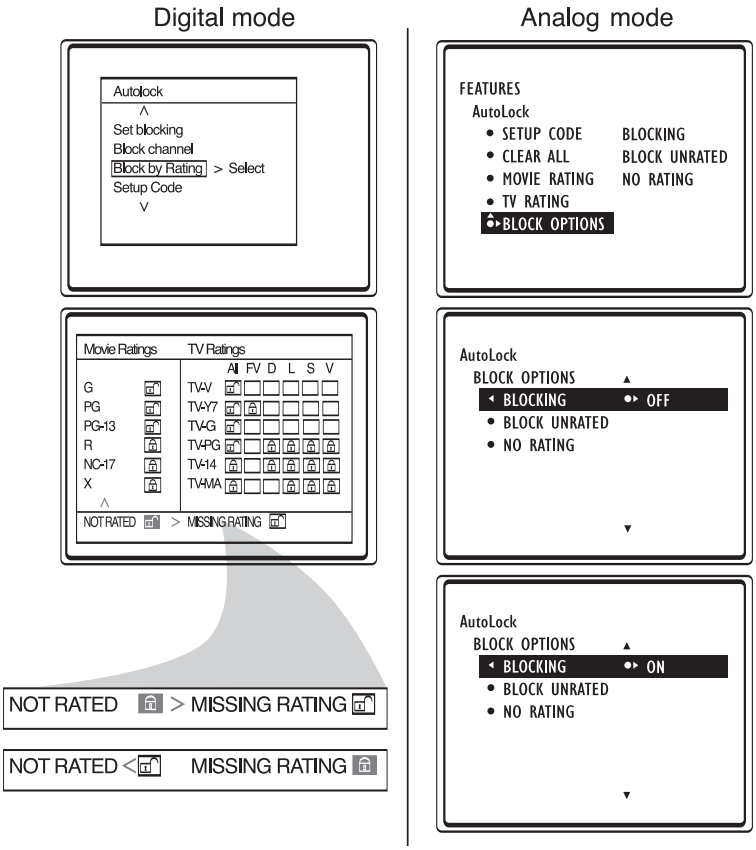
**For analog mode:**
**Press the CURSOR RIGHT ▶ button** to enter the **Block Options submenu.**
**Blocking:** Might be called the "master switch" for AutoLock™. When On, ALL blocking/censoring will take place. When Off, ALL blocking is disabled.

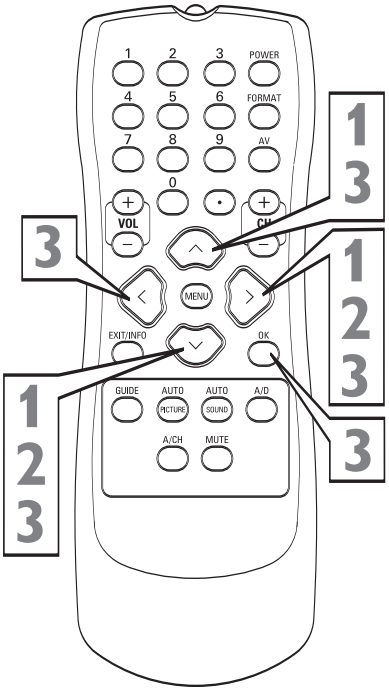
**Unrated:** ALL unrated programs based on the Movie Ratings or Parental (TV) Guidelines can be blocked if this feature is set to On.

**No Rating:** ALL programming with NO content advisory data can be blocked if set to On.

**3** **For digital mode:**
**Press the OK button** to turn On or Off the desired feature.

**For analog mode:**
**Press the CURSOR UP ▲ or DOWN ▼ buttons** to highlight the desired feature. When highlighted, each feature can be turned **On** or **Off using the CURSOR RIGHT ▶ or CURSOR LEFT ◀ button** on the remote.




## HELPFUL HINT

Use the A/D button on the Remote Control to switch between Digital and Analog channels.

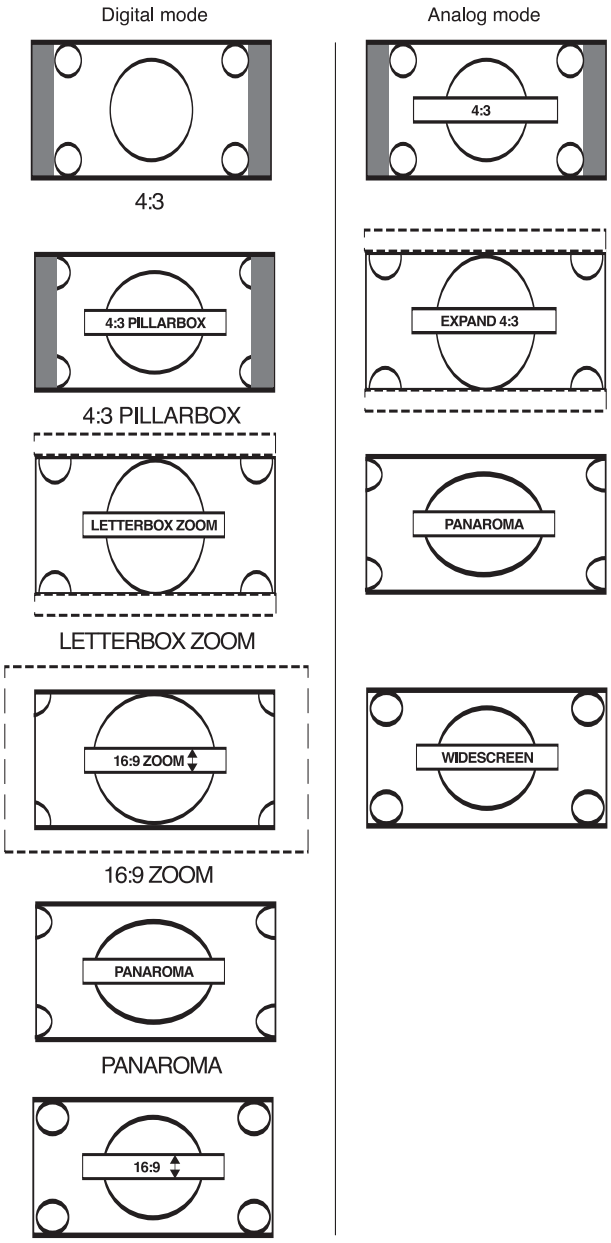
# How to use the Format Control

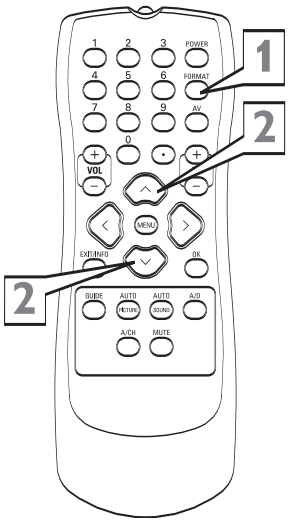
*Many times while watching movies from a DVD player the image is shown in "letter box" format. This is the format that is shown in movie theaters. when shown on a TV screen, the image will have areas of black on top and bottom of the screen. For format **16:9 Zoom** and **16:9**, after the desired format has been selected you can shift or "nudge" the picture by pressing the cursor to move the picture up or down.*

**1** **Press the FORMAT button** to select one of the toggle the screen format options.

**2** **For Digital Mode:**
While in the ***16:9 Zoom*** *and* ***16:9*** format options, you can **press the CURSOR UP ▲ or DOWN ▼ button** to "nudge" the picture up or down.

**For Analog Mode:**
You can change the screen format press the **CURSOR LEFT ◀** or **RIGHT ▶ .**




## Warning

To prevent uneven picture-tube aging, do not leave nonmoving images or border bars on the screen for an extended period.

## Helpful Hint

The TV's Picture-format options are available only with video sources connected to the ANTENNA, AV1, CVI, AV2, AV3 (side panel) inputs on the TV. The picture formats of video sources connected to the HD inputs are controlled through the HD set-top box or progressive-scan-capable DVD player providing the video source.

# CLOSE CAPTIONING - ANALOG

*Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses onscreen "text boxes" to show dialogue and conversations while the TV program is in progress.*

**1** **Press the MENU button** on the remote control to show the onscreen menu.

**2** **Press the CURSOR BUTTON ▼** twice to highlight **FEATURES.**

**3** **Press the CURSOR BUTTON ▶** to enter the **FEATURES** submenu.

**4** **Press the CURSOR BUTTON ▼** repeatedly until the **CLOSED CAP** control is highlighted.

**5** **Press the CURSOR BUTTON ▶**. The submenu will shift to the left and **CAPTION MODE** will be highlighted. Then press the **CURSOR BUTTON ▶** again to highlight the **CAPTION MODE**s area.

**6** **Press the CURSOR BUTTON ▲ or ▼** to select a **CAPTION MODE.**

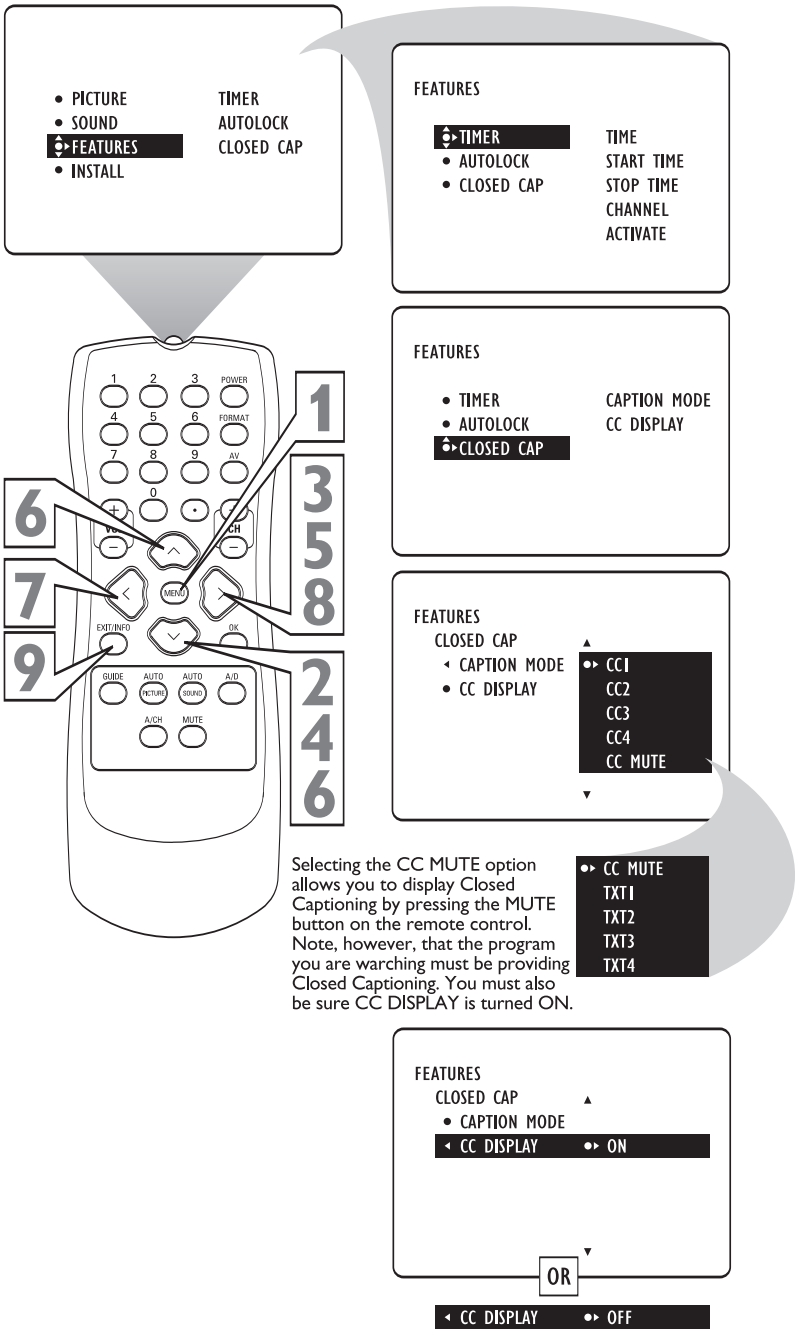
**NOTES:**

- CC1 mode is the usual setting. CC2, CC3, and CC4 may not be supported by broadcast stations.
- The CC MUTE option turns the Closed Captioning mode on whenever the MUTE button on the remote control is pushed. Select CC MUTE in the onscreen submenu to turn this feature on.

**7** **Press the CURSOR BUTTON ◀** to return to the **CLOSED CAP** submenu. Then press the **CURSOR BUTTON ▼** to highlight **CC DISPLAY.**

**8** **Press the CURSOR BUTTON ▶** to turn the onscreen display of Closed Captioning on or off. Closed Captioning will be shown only if the TV station broadcasting on the channel has the feature available.

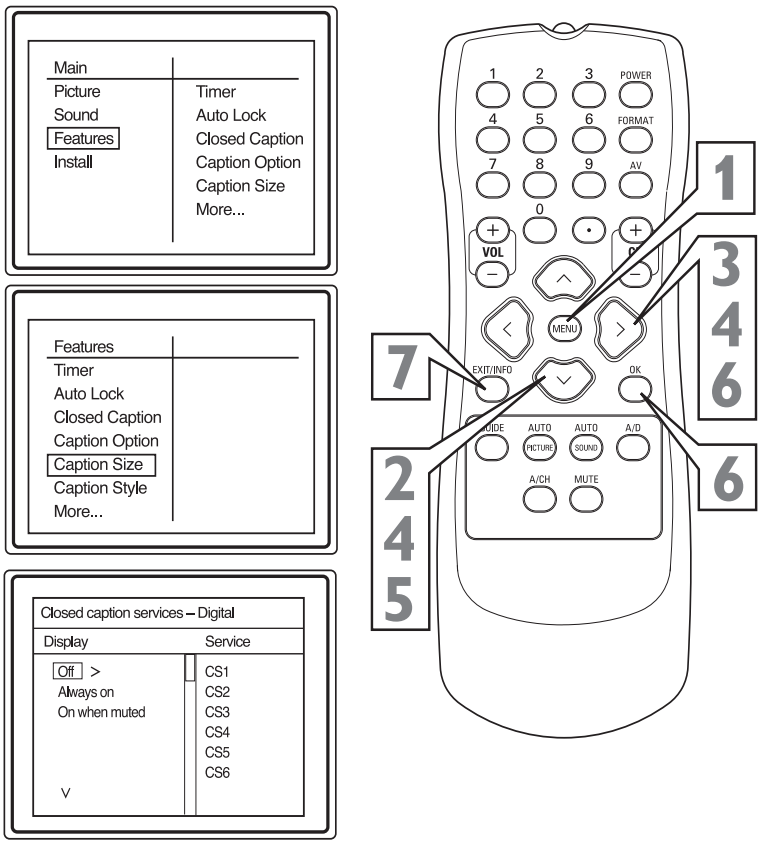
**9** **Press the EXIT/INFO button** to exit the menu.



# CLOSE CAPTIONING SERVICES-DIGITAL

*When in digital mode, you can assign display options to your closed captioning options.*

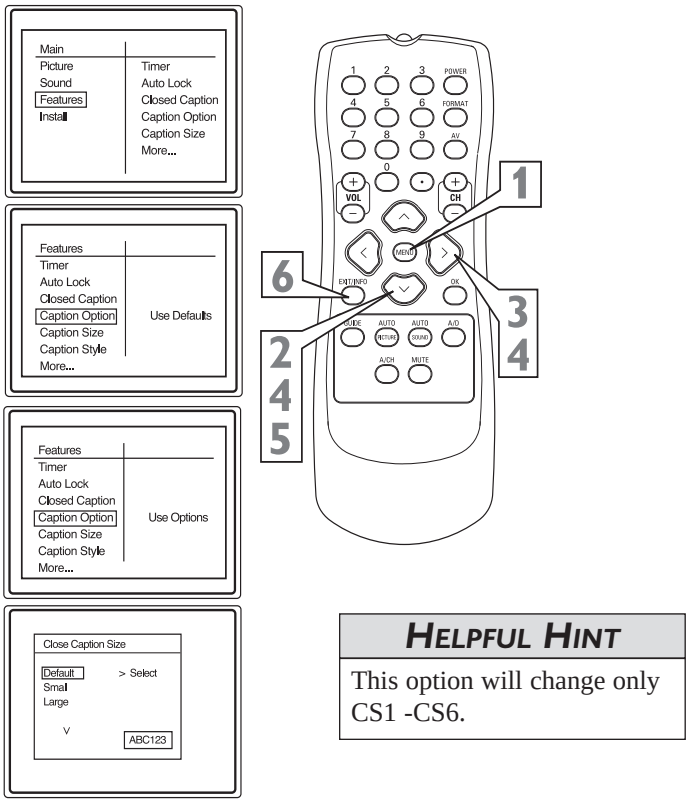
1. **Press the MENU button** on the remote to display the onscreen menu.
2. **Press the CURSOR DOWN ▼ button** until the word **Features** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to display the Features menu options.
4. **Press the CURSOR DOWN ▼ button** until the words Close Caption are highlighted and **press the CURSOR RIGHT ▶ button** to enter **Closed Caption** services-Digital menu options.
5. **Press the CURSOR DOWN ▼ button** to highlight the display options that you want – Off, Always on or On when muted.
6. **Press the CURSOR RIGHT ▶ button** to highlight the service you want to assign the display option that you selected in step 5 and **press OK button** to confirm. Repeat steps 5-6 to assign display options to more service.
7. **When finished, press the EXIT/INFO button** to remove the menu from the TV's screen.




# CAPTION OPTION AND SIZE -DIGITAL

*Caption Option allows you to select the default option or options that you have assigned to your Close captioning service.*

1. **Press the MENU button** on the remote to display the onscreen menu.
2. **Press the CURSOR DOWN ▼ button** until the word **Features** is highlighted.
3. **Press the CURSOR RIGHT ▶ button** to select Use Options or Use Defaults.
4. **Press the CURSOR DOWN ▼ button** to highlight the words Caption Size and **press the CURSOR RIGHT ▶ button** to enter Caption Size options menu.
5. **Press the CURSOR DOWN ▼ button** to highlight the words Close Caption display size options – Default, Small or Large.
   The text size will be simulated at the right hand corner of the menu to help you make your choice.
6. **When finished, press the EXIT/INFO button** to remove the menu from the TV's screen.




**HELPFUL HINT**

This option will change only CS1 -CS6.

# AUTO PICTURE

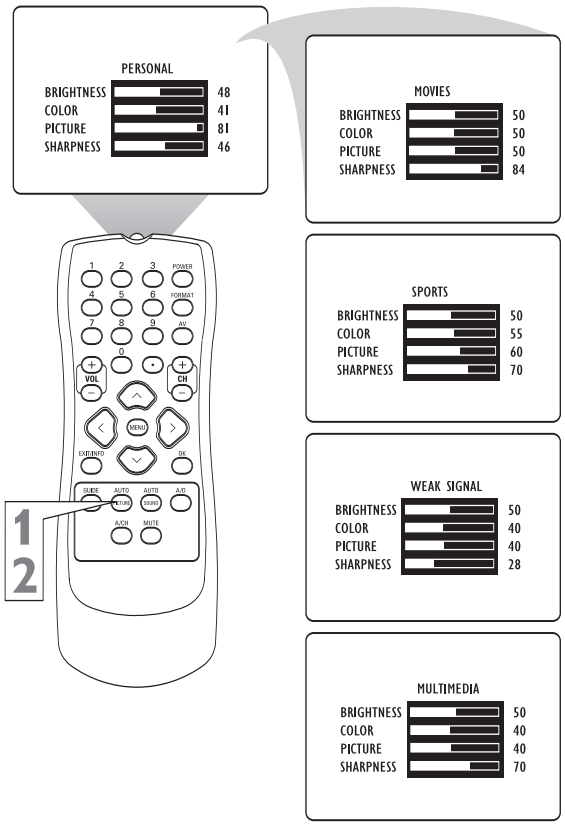
*You can use an Auto Picture option to automatically tailor the TV's picture for certain types of input signals. The factory has set the MOVIES, SPORTS, WEAK SIGNAL, and MULTIMEDIA options. The settings for the PERSONAL option are the ones you select through the onscreen PICTURE submenu.*

**1** **Press the AUTO PICTURE button** on the remote control. The current Auto Picture setting will be displayed on the screen.

**2** **Press the AUTO PICTURE button** repeatedly to select either Personal, Movies, Sports, Weak Signal, or Multimedia picture settings.

## HELPFUL HINT

If you select a Auto Picture setting option other than PERSONAL, then the BRIGHTNESS, COLOR, PICTURE, and SHARPNESS settings specific to that option will also be written to the PICTURE submenu items. At that point, the PERSONAL Auto Picture option settings will not be changed. Only when you go into the PICTURE submenu and change the settings will those settings be reflected in the PERSONAL Auto Picture option.




# AUTO SOUND

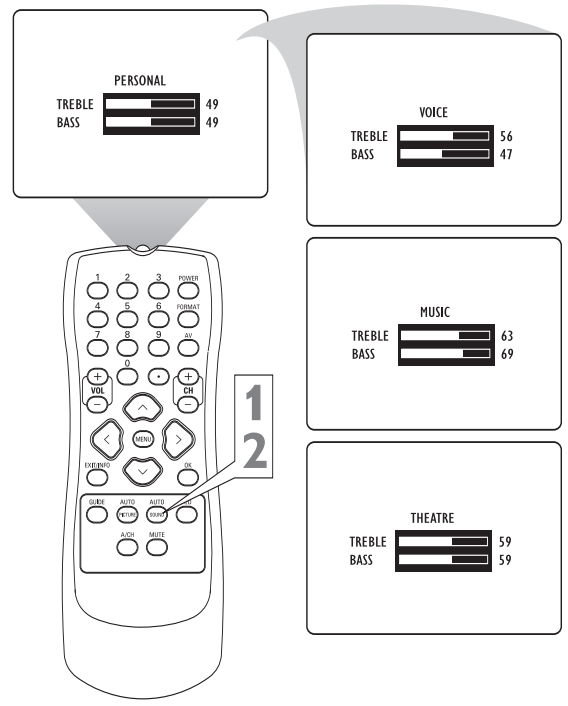
*You can use the Auto Sound options to automatically tailor the TV's sound for the type of program you are watching. The factory has set the VOICE, MUSIC, and THEATRE options. The settings for the PERSONAL option are the ones you select through the onscreen SOUND submenu. See descriptions of the options below, right.*

**1** **Press the AUTO SOUND button** on the remote control. The current Auto Sound setting will appear in the middle of the screen.

**2** **Press the AUTO SOUND button** repeatedly to toggle between the four settings. (Personal, Voice, Music, or Theatre).

## HELPFUL HINTS

If you select an Auto Sound option other than PERSONAL, then the TREBLE and BASS settings specific to that option will also be written to the SOUND submenu items. At that point, the PERSONAL Auto Sound option settings will not be changed. Only when you go into the SOUND submenu and change the TREBLE and BASS settings will those settings be reflected in the PERSONAL Auto Sound option.



# TROUBLESHOOTING

## Check This List of Symptoms and Possible Solutions Before Requesting Service

**You may be able to solve the problem yourself. Charges for TV installation and adjustment of customer controls are not covered under your warranty.**

If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is displayed on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If you believe the representative will need to help you with operations, please stay near the product. Our representative will be happy to assist you. **To reach our Customer Care Center, call 1-800-531-0039.**

## Difficulties and Possible Solutions

### The TV remote control does not work

- Check that the batteries are installed correctly. *See page 7.*
- If the batteries are dead, replace them with two "AA" size heavy duty (zinc chloride) or alkaline batteries. *See page 7.*
- Be no farther than 30 feet from the TV when using the remote control and point the remote toward the remote-sensor window on the TV. *See page 7 for the location of the remote-sensor window.*
- Clean the remote control and the remote-sensor window on the TV. *See page 7 for the location of the remote-sensor window.*
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the remote power or TV power/standby button again. *To locate the TV power/standby button, see page 7.*
- If you have your TV plugged into an AC power strip, ensure that the fuse on the power strip is not blown.
- Check to see if the TV is on a wall switch.

### The TV has no power

- Check the TV's power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the remote-control power or TV power/standby button again. *The location of the TV power/standby button is illustrated on page 7.*
- Check that the outlet is not on a wall switch.
- If you are using an AC power strip, be sure the fuse on the power strip is not blown.

### You cannot get a picture

- Be sure that you have made signal connections correctly and securely. *See Connection Guide.*
- Check the Tuner Mode control for the correct tuner setting. *See page 9.*
- Try running the Auto Program feature. *See page 10.*
- Ensure that you have selected the correct picture signal source using the AV (remote) or Source Select (TV) buttons. *See page 6.*
- If you are attempting to view a picture from a progressive-scan-capable DVD player connected to the HD INPUT-AV 4 jacks, ensure that you have switched the DVD player to progressive-scan mode. *See Connection Guide, as well as the DVD player's directions-for-use manual.*
- If you are using an HD receiver, ensure that its output is set correctly (HD or SD) based on the connection to the TV you have made. *See Connection Guide. Also, refer to the directions-for-use manual that came with the HD receiver.*

### Picture is fuzzy or out of focus

Check the set's convergence and adjust if necessary. *See page 16.*

### You cannot see a picture when you play a VCR tape

Press the AV button on the remote control or the Source Select button on the TV until you have selected the source to which you connected the VCR. *See page 6 (AV button) or page 6 (Source Select button).*

### You cannot tune to a particular channel

- Use the number buttons on the remote instead of the CH +/– buttons. *See page 6 (remote-control buttons).*
- If necessary, select the Tuner Mode and run Auto Program to store channels to the set's memory. See page 9-10.

### You see scrolling images

Check to ensure that you have made connections correctly. *See pages Connection Guide.*

# TROUBLESHOOTING (CONTINUED)

## Difficulties and Possible Solutions.

### The picture has no color or colors are not correct

- Check to ensure that you have made connections correctly. *See pages Connection Guide.*
- If the picture has red or blue fringes, you may need to adjust the convergence. *See page 16.*

### You are not able to get sound

- Check the Volume buttons on the remote control or on the TV. *See pages 7 (TV buttons) and 6 (remote-control buttons).*
- Check the Mute button on the remote. *See page 6 for the location of the Mute button.*
- Check the Audio Out and Speaker controls.
- If you have connected auxiliary sound equipment, check to ensure that you have made the audio connections correctly. *See Connection Guide.*

### TV displays wrong channel or no channels above 13

- Try selecting the channel again.
- Add the desired channel numbers into the TV using the Channel Edit control. *See page 11*.
- Check to ensure that the Tuner Mode is properly set and run Auto Program. *See page 9.*

# Care and Cleaning

## WARNING Concerning Stationary Images on the TV Screen:

## Do not leave picture border bars or stationary images on screen for extended periods of time. This can cause uneven picture-tube aging.

Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen. Be careful not to leave nonmoving images on screen for extended periods of time, or to display the same images on screen too frequently, because subtle ghost images can be left on the picture tubes. Avoid showing pictures with border bars or the same stationary images more than 15 percent of your total viewing in any one week. Sources of stationary images may be broadcast channels, cable channels, satellite channels, digital television boxes, DVD discs, laser discs, video games, CD-i discs, videotapes, and others. **Here are some examples of stationary images (this is not an all-inclusive list; you may encounter others in your viewing):**

- **Border bars—**solid bars shown when viewing a standard (4:3) picture and some widescreen movies on your widescreen (16:9) TV
- **DVD menus—**listings of DVD disc content
- **Video-game images and scoreboards**
- **Television station logos—**present a problem if they are bright and stationary; moving or low-contrast graphics are less likely to cause uneven aging of the picture tube
- **Stock-market tickers—**presented at the bottom of the TV screen
- **Shopping channel logos and pricing displays—**bright and shown constantly or repeatedly in the same location on the TV screen.

All picture tubes age with use, with their light output diminishing over time. But by maintaining normal use—mixing television picture types—you will create conditions in the tubes age at an even rate. The result will be a TV picture that is evenly bright over the entire screen.

## Placement of the TV

- To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot; for example, in direct sunlight or near a heating appliance.
- Be sure to allow a free flow of air to and from the perforated back cover of the set.

## Cleaning

- To avoid possible shock hazard, be sure the TV is unplugged from the electrical outlet before cleaning.
- Regularly dust the TV with a dry, non-scratching duster to keep the TV clean.
- When cleaning the TV, take care not to scratch or damage the screen surface. Avoid wearing jewelry or using anything abrasive. Do not use household cleaners. Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.

  Specially designed screen-cleaning kits are also available. These kits contain anti-static cleaners and cloths designed to get into the ridges of the TV screen. Purchase the kits at stores that sell electronics. Or call our Customer Care Center at 1-800-531-0039.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool, clear water and a mild soap or detergent. Use a clean, dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the back cover of the set.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

# MODEL SPECIFICATIONS

Appendix B

**Product Type**

Rear-projection HDTV

**Television System**

NTSC standard, ATSC and QAM

**Channel Coverage**

VHF: 2–13
UHF: 14–69
Cable TV: Midband
Superband
Hyperband
Ultraband

**Power Source**

AC 110V ±10%, 60 Hz

**Power Consumption**

255 W (average), standby <1W

**Audio Power**

51PP9100D - 2 x 5 W (51”
60PP9100D - 2 x 10 W (60”)
100 Hz–10 kHz at 5% THD
(flat response), 8-ohm load

**Speaker Type**

4 x 6 oval

**Video/Audio Terminals**

INPUT-AV 1
VIDEO (composite): 1 Vp-p, 75 ohms
AUDIO: 500 mVrms, 30 kohm

COMPONENT VIDEO INPUTS (YPbPr)
Y INPUT: 1.0Vp-p (includes sync), 75 ohms
Pb INPUT: 700mVp-p, 75 ohms
Pr INPUT: 700mVp-p, 75 ohms
(The Pb INPUT jack can also receive signals from outputs labeled Cb or B-Y. The Pr INPUT jack can also receive signals from outputs labeled Cr or R-Y.)

S-VIDEO INPUT (INPUT-AV2)
Y-INPUT: 1 Vp-p (includes sync), 75 ohms
C-INPUT: 300 mVp-p, 75 ohms

INPUT-AV 2
VIDEO (composite): 1 Vp-p, 75 ohms
AUDIO: 500 mVrms, 30 kohm

HD/CVI
Component Video YPrPb/RGB
AUDIO: 500 mVrms, 30 kohm

HDMI

SPDIF Out

Side Panel (AV3)
VIDEO (composite): 1 Vp-p, 75 ohms
AUDIO: 500 mVrms, 30 kohm

**Picture Visible Area**

51PP9100D: 51 inches
60PP9100D: 50 inches

**Product dimensions (W x H x D)**

51PP9100D:
60PP9100D: 56.5 inches (W) x 59.25 inches (H) x 27 inches (D)

**Product weight (does not include packaging)**

51PP9100D:
60PP9100D: 183 lb

**Supplied Accessories**

Remote control.

*Design and specifications are subject to change without notice.*

# Glossary of Television Terms

**Alternate Channel** • The feature that allows you to toggle between the last two channels viewed by pressing the A/CH button on the remote control.

**Audio/Video Inputs** • Jacks (standard RCA), located on the rear of the TV, used for the input of audio and video signals. These jacks are designed for use with VCRs (or other accessories) to receive higher picture resolution and offer sound-connection options.

**Auto Program** • The feature that, when activated, scans for all available channels from regular antenna or cable signals and stores only active broadcast stations in the TV's memory.

**Channel Edit** • The feature that allows you to add or delete channels from the list of channels stored in the TV's memory. Channel Edit makes it easy to limit or expand the number of channels that are available to you when you press the CH +/– buttons on your remote control.

**Closed Captioning** • The broadcast standard feature that allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, Closed Captioning uses onscreen text boxes to show dialogue and conversations while a TV program is in progress.

**Coaxial Cable** • A single solid wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75-ohm input found on the television or VCR.

**Comb Filter** • TV filter that removes distortion, resulting in a sharper and purer color display. The comb filter addresses the annoying cross-color distortion that may occur in TV broadcasts when, for example, the presenter wears a striped or checked jacket.

**Component Video Inputs** • Inputs that allow the separate reception of blue, red, and luminance signals. These inputs provide the highest possible color and picture resolution in the playback of digital signal-source material, such as the kind available from DVD players. Component video inputs allow for improved bandwidth information not possible through composite video or S-Video connections.

**Composite Video Input** • An input in which all the components required for displaying the onscreen image are combined in one signal.

**Convergence** • The technique used in color TV for bringing the red, green, and blue color beams together so that they hit the same part of the picture tube screen at the same time. This avoids color fringes around images in the picture.

**High-definition Television (HDTV)** • High-resolution digital television. HDTV is high-resolution digital television. It has lifelike pictures, and with it films retain their original width, enhancing the home theater experience.

**Incredible Surround™** • False acoustic management of the audio signal that produces a dramatic expansion of the wall of sound that surrounds the listener and heightens overall viewing pleasure.

**Interlaced** • A picture-scanning technique that improves the appearance of onscreen motion. It also helps smooth jagged lines that are sometimes seen on curved and angled surfaces in the picture.

**Menu** • An onscreen list of feature controls available for you to adjust or set.

**NTSC** • National Television Standards Committee format devised in the 1940s for TV broadcast analog video signals (525 lines: 30 Hz).

**Onscreen Displays (OSD)** • The wording or messages generated by the television (or VCR) to help you with specific feature controls (color adjustment or programming, for example).

**Progressive Scan** • A picture-scanning technique that doubles the number of picture lines, eliminating the flicker and providing a jitter-free picture.

**PTV** • Projection Television. (Rear- and/or front-projection design systems are available.)

**Remote-control Sensor Window** • The window or opening found on the television control panel through which infrared remote-control command signals are received.

**RF** • Radio Frequency or modulated signal design used as the carrier for television broadcasts.

**Second Audio Program (SAP)** • An additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. A monaural soundtrack included within the recorded or video signal (usually containing a second language translation for the displayed programming).

**S-Video Input** • Signal input that allows direct connection of high-resolution video sources, such as a satellite receiver, DVD player, S (Super)-VHS videocassette recorder, or video games. Provides improved picture resolution, sharpness, and clarity.

**480p** • Digital picture format with 704 x 480 pixels, sent at 60 complete frames per second. This is the output format of progressive-scan DVD players.

**1080i** • Digital high-definition picture format with 1920 x 1080 pixels, sent at 60 interlaced frames per second (30 complete frames per second).

**Tint** • TV function that allows you to change the general color balance between cool and warm. Adjust tint according to your personal preference.

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# PHILIPS LIMITED WARRANTY

## One (1) Year Labor & One (1) Year Parts & Two (2) Years Display Repair

**PHILIPS CONSUMER ELECTRONICS** warrants this product against defect in material or workmanship, subject to any conditions set forth as follows:

**PROOF OF PURCHASE:**
You must have proof of the date of purchase to receive warranted repair on the product. A sales receipt or other document showing the product and the date that you purchased the product as well as the authorized retail included, is considered such proof.

**COVERAGE:**
(If this product is determined to be defective)

LABOR: For a period of one (1) year from the date of purchase, Philips will repair or replace the product, at its option, at no charge, or pay the labor charges to any Philips authorized repair facility. After the period of one (1) year, Philips will no longer be responsible for charges incurred.

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DISPLAY: For a period of two (2) years from the date of purchase, Philips will supply, at no charge, a new or rebuilt active display device in exchange for the defective display. Philips authorized service centers will provide removal and installation of the parts under the specified labor warranty.

**EXCLUDED FROM WARRANTY COVERAGE**
Your warranty does not cover:

- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- Product repair and/or part replacement because of improper installation, connections to improper voltage supply, abuse, neglect, misuse, accident, unauthorized repair or other cause not within the control of Philips.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
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- Product lost in shipment and no signature verification of receipt can be provided.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Products sold AS IS or RENEWED.

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Contact Philips Customer Care Center at:
1-888-PHILIPS (1-888-744-5477)

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1-800-661-6162 (French Speaking)
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**Philips, P.O. Box 671539, Marietta, GA. 30006-0026**

(Warranty: 4835 710 27250)

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